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Beach Seine Data from the Fraser River at the North Arm, Main Arm and Agassiz During 1987-88

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Canadian Data Report of

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March 1989

BEACH SEINE DATA FROM THE FRASER RIVER AT THE NORTH ARM, MAIN ARM AND AGASSIZ DURING 1987-88

by

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ABSTRACT

Brown, T. J., T. R. Whitehouse and C. D. Levings. 1989. Beach seine data from the Fraser River at the North Arm, Main Arm and Agassize during 1987-88. Can. Data Rep. Fish. Aquat. Sci. 737: 134 p.

The North Arm and Main Arm of the Fraser River were sampled during 19 trips from February 11, 1987 to February 18, 1988 (Fig. 1). There were 366 and 307 beach seines capturing 1589 and 1116 chinook on the North Arm and Main Arm stations respectively (Table 5). Agassiz was sampled from April 15, 1987 to April 13, 1988 with 21 trips made up of 419 beach seine sets (Fig. 2). There were 1284 chinook identified from the Agassiz stations.

There were 13 families combining to make up the 37 species of fish identified in this study (Table 1). The catch by species is presented in this report.

RÉSUMÉ

Brown, T. J., T. R. Whitehouse and C. D. Levings. 1989. Beach seine data from the Fraser River at the North Arm, Main Arm and Agassize during 1987-88. Can. Data Rep. Fish. Aquat. Sci. 737: 134 p.

Le bras Nord et le bras Principal du Fraser ont été échantillonnés au cours de 19 sorties, du 11 février 1987 au 18 février 1988 (fig. 1). Au total, 366 et 307 coups de senne de rivage ont permis de capturer respectivement 1589 et 1116 saumons quinnat dans le bras Nord et le bras Principal (tableau 5). À Agassiz, l'échantillonnage s'est fait du 15 avril 1987 au 13 avril 1988, soit 21 sorties pour 419 coups de senne de rivage (fig. 2), qui ont permis d'identifier 1284 quinnats.

Treize familles de poissons se combinaient pour constituer 37 espèces identifiées au cours de cette étude (tableau 1). Le rapport donne également le nombre de prises par espèce.

INTRODUCTION

The lower Fraser River is utilized by the 5 species of Pacific salmon and 2 species of anadromous trout. Chinook salmon juveniles exhibit 2 life history strategies. Some chinook fry rear and increase in size as they move downstream while others overwinter and outmigrate as 1+ smolts. Fraser et al. (1982), identified 3 life strategies for juvenile chinook: 1. immediate fry migrants which usually move to the estuary or ocean upon emergence; 2. 'ocean-type fry' which rear in fresh water for 60 to 150 days prior to migration; 3. 'stream type chinook' are fry which overwinter and migrate in their second spring.

Studies by Rosberg (1987) suggest that the numbers of chinook juveniles available at Annacis Island and Mission drop off sharply in August and that overwintering doesn't occur in the tidal reaches of the mainstem of the Fraser River. Overwintering chinook were captured from Agassiz, Quesnel and to Prince George by electroshocking (Rosburg 1987).

This study examines juvenile chinook habitat use and life history strategies in the lower Fraser River. The examination of overwintering habitat, fish distributions and densities are examined as well as the presence of hatchery marks mixed with the Agassiz overwintering population.

MATERIALS AND METHODS

The distribution of fish species was determined using a 30 m beach seine (wings 10 m of 1 cm stretched mesh and a 10 m bunt of 0.6 cm stretched mesh with a depth of 3 m). The net was pulled off the beach using a 5 m Lucas inflatable boat (North Arm and Main Arm) or a 5.5 m jet boat (Agassiz). The captured fish were placed in buckets and the set was repeated for a total of 3 per site (non-replacement sampling).

The fish were identified in the field, counted and released. Sub-sampling of the catches was done for subsequent species confirmation, diet analysis, length and weights. Data on the latter three topics will be reported elsewhere. The lengths of all chinook from Agassiz were recorded in the field and are summarized in this report.

Hart (1973) and Scott and Crossman (1973) were used to verify the species identification. Temperature (°C), salinity ‰, and currents ($m \cdot s^{-1}$) were also recorded here using a Beckman RS-5 salinometer (North and Main arm), thermometer and a Marsh-McBirney current meter.

The catch by species data for the North Arm, Main Arm and Agassiz are presented in tables 2, 3, and 4 respectively. The chinook data summary is presented in Table 5. The Agassiz length data are presented in Appendix I.

These data indicate the presence of chinook smolts that stay in the Agassiz area over the winter and migrate to the ocean as 1+ smolts. These data are similar to those of Rosberg (1987). No hatchery marks were observed in the overwintering population of chinook at Agassiz.

ACKNOWLEDGMENTS

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Figure 2. Agassiz beach seine stations.

Table 1. Common, scientific and code numbers of fishes collected in the Fraser River 1987-88, and Table abbreviations

Group and scientific name	Common name	Code
FAMILY CATOSTOMIDAE	unknown sucker	S 523
Catostomus catostomus	longnose sucker	S 531
" columbianus	bridgelip sucker	S 536
" macrocheilus	largescale sucker	S 544
FAMILY COREGONIDAE		
Prosopium williamsoni	mountain whitefish	S 291
FAMILY COTTIDAE	unknown sculpin	S 817
Cottus asper	prickly sculpin	S 823
Leptocottus armatus	pacific staghorn sculpin	H 518
FAMILY CYPRINIDAE	unknown minnow	S 376
Hybognathus hankinsoni	brassy minnow	S 414
Mylocheilus caurinus	peamouth chub	S 424
Ptychocheilus oregonensis	northern squawfish	S 487
Rhinichthys cataractae	longnose dace	S 494
Richardsonius balteatus	redside shiner	S 503
FAMILY GASTEROSTEIDAE	three spined stickleback	S 665
FAMILY OSMERIDAE	unknown smelt	H 136
Spirinchus thaleichthys	longfin smelt	H 146
Hypomesus pretiosus pretiosus	surf smelt	H 139
Osmerus mordax dentex	rainbow smelt	H 143
Thaleichthys pacificus	eulachon	H 148
FAMILY PETROMYZONTIDAE	unknown lamprey	S 036
-	unknown larval fish	S 999
FAMILY ICTALURIDAE	unknown catfish	S 589
Ictalurus nebulosus	brown bullhead	S 598
FAMILY EMBIOTOCIDAE		
Cymatogaster aggregata	shiner perch	H 304
FAMILY PLEURONECTIDAE		
Platichthys stellatus	starry flounder	H 631
FAMILY SALMONIDAE	unknown salmon	H 107
Oncorhynchus gorbuscha	pink salmon	H 108
" keta	chum salmon	H 112
" kisutch	coho salmon	H 115
" nerka	sockeye salmon	H 118
" tshawytscha	chinook salmon	H 124

Table 1. (Con't)

Group and scientific name	Common name	Code
Salmo clarki clarki	coastal cutthroat trout	H 127
Salmo gairdneri	rainbow trout (steelhead)	H 128
Salvelinus malma	dolly varden	H 134
FAMILY CLUPEIDAE		
Clupea harengus pallasi	pacific herring	H 096
FAMILY CENTRARCHIDAE		
Pomoxis nigromaculatus	black crappie	S 745

TRIP - corresponds to consecutive sampling trips for each year
DATE - year, month, day
TIME - Pacific Standard Time
STN - station numbers, 100's - North Arm, 200's - MAIN ARM, 300's Agassiz
SET - each set is progressively numbered by station for each trip
HAUL - the total number of beach seine sets by station for each trip
TIDE - H - high tide, L - low tide - North and Main arms only
THGHT - tide height in metres - North and Main Arms only
Temp - temperature in °C
Sal - salinity §
CURR - current $m \cdot sec^{-1}$
SPEC - fish species abbreviations
GROUP - 1 - marked (CWT) - adipose fin clip
2 - hatchery released salmon
3 - wild - distinguished from the production release by size
4 - not specified
STAGE - 3 - fry
4 - smolt
5 - grilse
7 - adult
CATCH - the total catch by species and group

Table 2. North Arm catch data.

CATCH DATA - FRASER RIVER
NORTH ARM 1987 - 1988

TRIP	DATE	TIME	STN	SET	HAUL	TIDE	THGHT	TEMP	SAL	CURR	SPEC	GROUP	STAGE	CATCH
2	870316	950	105	1	1	.	2.0	.	.	.	H124	3	3	2
2	870316	950	105	1	1	.	2.0	.	.	.	H112	3	3	1
2	870316	950	105	1	1	.	2.0	.	.	.	S487	.	.	2
2	870316	950	105	1	1	.	2.0	.	.	.	H631	.	.	2
2	870316	950	105	1	1	.	2.0	.	.	.	S665	.	.	1
2	870316	950	105	1	1	.	2.0	.	.	.	H146	.	.	1
2	870316	1035	109	1	1	.	2.0	.	.	.	H112	3	3	1
2	870316	1035	109	1	1	.	2.0	.	.	.	H124	3	3	2
2	870316	1035	109	1	1	.	2.0	.	.	.	H631	.	.	3
2	870316	1035	109	1	1	.	2.0	.	.	.	S665	.	.	1
2	870316	1035	109	1	1	.	2.0	.	.	.	S036	.	.	1
2	870316	1055	110	1	1	.	2.0	.	.	.	H112	3	3	3
2	870316	1055	110	1	1	.	2.0	.	.	.	H124	3	3	2
2	870316	1055	110	1	1	.	2.0	.	.	.	H631	.	.	3
2	870316	1055	110	1	1	.	2.0	.	.	.	H518	.	.	2
2	870316	1055	110	1	1	.	2.0	.	.	.	S424	.	.	1
2	870316	1120	112	1	1	.	2.0	.	.	.	H112	3	3	2
2	870316	1120	112	1	1	.	2.0	.	.	.	H139	.	.	18
2	870316	1120	112	1	1	.	2.0	.	.	.	S424	.	.	1
2	870316	1417	113	1	1	.	4.0	.	.	.	H631	.	.	7
2	870316	1417	113	1	1	.	4.0	.	.	.	H518	.	.	1
2	870316	1417	113	1	1	.	4.0	.	.	.	S291	.	.	1
2	870316	1417	113	1	1	.	4.0	.	.	.	H124	.	.	1
2	870316	1505	114	1	1	.	4.0	.	.	.	H631	.	.	5
2	870316	1505	114	1	1	.	4.0	.	.	.	H518	.	.	1
3	870401	745	101	1	3	H	4.2	6.4	2.1	.	H631	.	.	3
3	870401	745	101	1	3	H	4.2	6.4	2.1	.	S665	.	.	3
3	870401	745	101	1	3	H	4.2	6.4	2.1	.	H124	3	3	7
3	870401	745	101	1	3	H	4.2	6.4	2.1	.	H112	3	3	5
3	870401	745	101	1	3	H	4.2	6.4	2.1	.	H518	.	.	1
3	870401	750	101	2	3	H	4.2	6.4	2.1	.	H631	.	.	3
3	870401	750	101	2	3	H	4.2	6.4	2.1	.	H518	.	.	5
3	870401	750	101	2	3	H	4.2	6.4	2.1	.	S665	.	.	3
3	870401	750	101	2	3	H	4.2	6.4	2.1	.	H112	3	3	34
3	870401	750	101	2	3	H	4.2	6.4	2.1	.	H124	3	3	7
3	870401	800	101	3	3	H	4.2	6.4	2.1	.	H112	3	3	4
3	870401	800	101	3	3	H	4.2	6.4	2.1	.	S665	.	.	5
3	870401	800	101	3	3	H	4.2	6.4	2.1	.	H518	.	.	3
3	870401	800	101	3	3	H	4.2	6.4	2.1	.	S424	.	.	1
3	870401	834	102	1	3	H	4.2	7.4	2.5	.	H112	3	3	1
3	870401	834	102	1	3	H	4.2	7.4	2.5	.	S665	.	.	1
3	870401	840	102	2	3	H	4.2	7.4	2.5	.	H146	.	.	2
3	870401	840	102	2	3	H	4.2	7.4	2.5	.	S665	.	.	2
3	870401	850	102	3	3	H	4.2	7.4	2.5	.	H096	.	.	1
3	870401	905	104	1	3	H	4.2	7.8	0.7	.	H112	3	3	9

CATCH DATA - FRASER RIVER
NORTH ARM 1987 - 1988

TRIP	DATE	TIME	STN	SET	HAUL	TIDE	THGHT	TEMP	SAL	CURR	SPEC	GROUP	STAGE	CATCH
3	870401	905	104	1	3	H	4.2	7.8	0.7	.	S665	.	.	6
3	870401	905	104	1	3	H	4.2	7.8	0.7	.	H124	3	3	8
3	870401	910	104	2	3	H	4.2	7.8	0.7	.	H112	3	3	22
3	870401	910	104	2	3	H	4.2	7.8	0.7	.	H124	3	3	12
3	870401	910	104	2	3	H	4.2	7.8	0.7	.	H146	.	.	13
3	870401	910	104	2	3	H	4.2	7.8	0.7	.	S665	.	.	8
3	870401	930	104	3	3	H	4.2	7.8	0.7	.	H134	4	7	1
3	870401	930	104	3	3	H	4.2	7.8	0.7	.	H112	3	3	27
3	870401	930	104	3	3	H	4.2	7.8	0.7	.	H124	3	3	23
3	870401	930	104	3	3	H	4.2	7.8	0.7	.	H631	.	.	2
3	870401	930	104	3	3	H	4.2	7.8	0.7	.	S665	.	.	3
3	870401	950	105	1	1	H	4.2	8.0	0.6	.	H124	3	3	2
3	870401	950	105	1	1	H	4.2	8.0	0.6	.	H112	3	3	1
3	870401	950	105	1	1	H	4.2	8.0	0.6	.	H146	.	.	1
3	870401	950	105	1	1	H	4.2	8.0	0.6	.	S665	.	.	1
3	870401	1030	106	1	1	H	4.2	.	.	.	H124	3	3	15
3	870401	1030	106	1	1	H	4.2	.	.	.	H112	3	3	13
3	870401	1030	106	1	1	H	4.2	.	.	.	H146	.	.	1
3	870401	1030	106	1	1	H	4.2	.	.	.	H518	.	.	1
3	870401	1050	115	1	2	H	4.2	7.3	0.2	.	H112	3	3	10
3	870401	1050	115	1	2	H	4.2	7.3	0.2	.	H118	3	7	1
3	870401	1050	115	1	2	H	4.2	7.3	0.2	.	H124	3	3	14
3	870401	1050	115	1	2	H	4.2	7.3	0.2	.	H631	.	.	2
3	870401	1050	115	1	2	H	4.2	7.3	0.2	.	H146	.	.	1
3	870401	1050	115	1	2	H	4.2	7.3	0.2	.	S823	.	.	1
3	870401	1050	115	1	2	H	4.2	7.3	0.2	.	S424	.	.	1
3	870401	1050	115	1	2	H	4.2	7.3	0.2	.	S665	.	.	1
3	870401	1110	115	2	2	H	4.2	7.3	0.2	.	H124	3	3	11
3	870401	1110	115	2	2	H	4.2	7.3	0.2	.	H112	3	3	16
3	870401	1110	115	2	2	H	4.2	7.3	0.2	.	S665	.	.	1
3	870401	1110	115	2	2	H	4.2	7.3	0.2	.	S424	.	.	1
3	870401	1110	115	2	2	H	4.2	7.3	0.2	.	S823	.	.	1
3	870401	1110	115	2	2	H	4.2	7.3	0.2	.	H631	.	.	1
3	870401	1358	105	1	1	L	1.2	8.2	0.0	.	H112	3	3	21
3	870401	1358	105	1	1	L	1.2	8.2	0.0	.	H124	3	3	26
3	870401	1358	105	1	1	L	1.2	8.2	0.0	.	H146	.	.	1
3	870401	1358	105	1	1	L	1.2	8.2	0.0	.	H518	.	.	5
3	870401	1358	105	1	1	L	1.2	8.2	0.0	.	S665	.	.	2
3	870401	1358	105	1	1	L	1.2	8.2	0.0	.	H631	.	.	2
3	870401	1358	105	1	1	L	1.2	8.2	0.0	.	S823	.	.	2
3	870401	1414	104	1	2	L	1.2	.	.	.	H112	3	3	15
3	870401	1414	104	1	2	L	1.2	.	.	.	H124	3	3	6
3	870401	1414	104	1	2	L	1.2	.	.	.	S503	.	.	2
3	870401	1414	104	1	2	L	1.2	.	.	.	S665	.	.	3
3	870401	1414	104	1	2	L	1.2	.	.	.	S424	.	.	1

CATCH DATA - FRASER RIVER
NORTH ARM 1987 - 1988

TRIP	DATE	TIME	STN	SET	HAUL	TIDE	THGHT	TEMP	SAL	CURR	SPEC	GROUP	STAGE	CATCH
3	870401	1414	104	1	2	L	1.2	.	.	.	H146	.	.	2
3	870401	1423	104	2	2	L	1.2	.	.	.	H146	.	.	2
3	870401	1423	104	2	2	L	1.2	.	.	.	H112	3	3	7
3	870401	1423	104	2	2	L	1.2	.	.	.	H124	3	3	8
3	870401	1423	104	2	2	L	1.2	.	.	.	S823	.	.	1
3	870401	1445	103	1	1	L	1.2	8.2	0.2	.	H112	3	3	12
3	870401	1445	103	1	1	L	1.2	8.2	0.2	.	H124	3	3	11
3	870401	1445	103	1	1	L	1.2	8.2	0.2	.	H146	.	.	2
3	870401	1445	103	1	1	L	1.2	8.2	0.2	.	S823	.	.	6
3	870401	1445	103	1	1	L	1.2	8.2	0.2	.	H631	.	.	11
3	870401	1525	102	1	2	L	1.2	8.6	1.5	.	H112	3	3	3
3	870401	1525	102	1	2	L	1.2	8.6	1.5	.	S665	.	.	2
3	870401	1525	102	1	2	L	1.2	8.6	1.5	.	S823	.	.	1
3	870401	1535	102	2	2	L	1.2	8.6	1.5	.	H304	.	.	1
3	870401	1535	102	2	2	L	1.2	8.6	1.5	.	H631	.	.	1
3	870401	1535	102	2	2	L	1.2	8.6	1.5	.	H124	3	3	6
3	870401	1535	102	2	2	L	1.2	8.6	1.5	.	S823	.	.	12
3	870401	1535	102	2	2	L	1.2	8.6	1.5	.	H112	3	3	8
3	870401	1535	102	2	2	L	1.2	8.6	1.5	.	H518	.	.	1
3	870401	1535	102	2	2	L	1.2	8.6	1.5	.	S665	.	.	2
3	870401	1535	102	2	2	L	1.2	8.6	1.5	.	H146	.	.	1
3	870401	1558	101	1	3	L	1.2	8.2	1.8	.	H631	.	.	17
3	870401	1558	101	1	3	L	1.2	8.2	1.8	.	S665	.	.	1
3	870401	1558	101	1	3	L	1.2	8.2	1.8	.	H112	3	3	3
3	870401	1617	101	2	3	L	1.2	8.2	1.8	.	H631	.	.	55
3	870401	1617	101	2	3	L	1.2	8.2	1.8	.	H112	3	3	17
3	870401	1617	101	2	3	L	1.2	8.2	1.8	.	H124	3	3	19
3	870401	1617	101	2	3	L	1.2	8.2	1.8	.	S665	.	.	3
3	870401	1617	101	2	3	L	1.2	8.2	1.8	.	S424	.	.	1
3	870401	1630	101	3	3	L	1.2	8.2	1.8	.	H112	3	3	11
3	870401	1630	101	3	3	L	1.2	8.2	1.8	.	H124	3	4	4
3	870401	1630	101	3	3	L	1.2	8.2	1.8	.	H631	.	.	5
3	870401	1630	101	3	3	L	1.2	8.2	1.8	.	S665	.	.	4
3	870401	1630	101	3	3	L	1.2	8.2	1.8	.	H146	.	.	1
4	870413	1010	101	1	3	L	1.4	7.2	0.0	0.28	H112	3	3	12
4	870413	1010	101	1	3	L	1.4	7.2	0.0	0.28	H124	3	3	47
4	870413	1010	101	1	3	L	1.4	7.2	0.0	0.28	H631	.	.	34
4	870413	1010	101	1	3	L	1.4	7.2	0.0	0.28	H518	.	.	3
4	870413	1010	101	1	3	L	1.4	7.2	0.0	0.28	S823	.	.	1
4	870413	1010	101	1	3	L	1.4	7.2	0.0	0.28	H146	.	.	2
4	870413	1015	101	2	3	L	1.4	7.2	0.0	0.28	H631	.	.	111
4	870413	1015	101	2	3	L	1.4	7.2	0.0	0.28	H518	.	.	7
4	870413	1015	101	2	3	L	1.4	7.2	0.0	0.28	S665	.	.	4
4	870413	1015	101	2	3	L	1.4	7.2	0.0	0.28	H112	3	3	5
4	870413	1015	101	2	3	L	1.4	7.2	0.0	0.28	H124	3	3	26

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TRIP	DATE	TIME	STN	SET	HAUL	TIDE	THGHT	TEMP	SAL	CURR	SPEC	GROUP	STAGE	CATCH
4	870413	1020	101	3	3	L	1.4	7.2	0.0	0.28	H112	3	3	10
4	870413	1020	101	3	3	L	1.4	7.2	0.0	0.28	H124	3	3	13
4	870413	1110	102	1	3	L	1.4	8.1	1.7	0.02	H124	3	3	7
4	870413	1110	102	1	3	L	1.4	8.1	1.7	0.02	H631	.	.	1
4	870413	1110	102	1	3	L	1.4	8.1	1.7	0.02	S665	.	.	2
4	870413	1110	102	1	3	L	1.4	8.1	1.7	0.02	H518	.	.	1
4	870413	1120	102	2	3	L	1.4	8.1	1.7	0.02	H124	3	3	20
4	870413	1120	102	2	3	L	1.4	8.1	1.7	0.02	H631	.	.	2
4	870413	1120	102	2	3	L	1.4	8.1	1.7	0.02	S665	.	.	1
4	870413	1120	102	2	3	L	1.4	8.1	1.7	0.02	S823	.	.	1
4	870413	1120	102	2	3	L	1.4	8.1	1.7	0.02	H112	3	3	3
4	870413	1125	102	3	3	L	1.4	8.1	1.7	0.02	H124	3	3	23
4	870413	1125	102	3	3	L	1.4	8.1	1.7	0.02	H631	.	.	1
4	870413	1125	102	3	3	L	1.4	8.1	1.7	0.02	S665	.	.	3
4	870413	1125	102	3	3	L	1.4	8.1	1.7	0.02	S823	.	.	1
4	870413	1125	102	3	3	L	1.4	8.1	1.7	0.02	H112	3	3	5
4	870413	1155	104	1	3	L	1.4	7.2	0.0	0.29	H112	3	3	16
4	870413	1155	104	1	3	L	1.4	7.2	0.0	0.29	H124	3	3	46
4	870413	1155	104	1	3	L	1.4	7.2	0.0	0.29	H124	4	4	3
4	870413	1155	104	1	3	L	1.4	7.2	0.0	0.29	S665	.	.	7
4	870413	1155	104	1	3	L	1.4	7.2	0.0	0.29	H631	.	.	2
4	870413	1155	104	1	3	L	1.4	7.2	0.0	0.29	H146	.	.	3
4	870413	1155	104	1	3	L	1.4	7.2	0.0	0.29	S503	.	.	53
4	870413	1205	104	2	3	L	1.4	7.2	0.0	0.29	H112	3	3	19
4	870413	1205	104	2	3	L	1.4	7.2	0.0	0.29	H124	3	3	26
4	870413	1205	104	2	3	L	1.4	7.2	0.0	0.29	S665	.	.	6
4	870413	1205	104	2	3	L	1.4	7.2	0.0	0.29	H518	.	.	1
4	870413	1205	104	2	3	L	1.4	7.2	0.0	0.29	H631	.	.	2
4	870413	1205	104	2	3	L	1.4	7.2	0.0	0.29	H146	.	.	2
4	870413	1205	104	2	3	L	1.4	7.2	0.0	0.29	S503	.	.	19
4	870413	1210	104	3	3	L	1.4	7.2	0.0	0.29	H112	3	3	2
4	870413	1210	104	3	3	L	1.4	7.2	0.0	0.29	H124	3	3	18
4	870413	1210	104	3	3	L	1.4	7.2	0.0	0.29	S665	.	.	1
4	870413	1210	104	3	3	L	1.4	7.2	0.0	0.29	H631	.	.	4
4	870413	1210	104	3	3	L	1.4	7.2	0.0	0.29	H146	.	.	2
4	870413	1210	104	3	3	L	1.4	7.2	0.0	0.29	S503	.	.	3
4	870413	1210	104	3	3	L	1.4	7.2	0.0	0.29	H118	3	4	1
4	870413	1210	104	3	3	L	1.4	7.2	0.0	0.29	S823	.	.	3
4	870413	1615	102	1	3	H	4.1	7.7	0.2	0.04	H124	4	3	11
4	870413	1615	102	1	3	H	4.1	7.7	0.2	0.04	S665	.	.	3
4	870413	1615	102	1	3	H	4.1	7.7	0.2	0.04	H631	.	.	1
4	870413	1620	102	2	3	H	4.1	7.7	0.2	0.04	H124	4	3	26
4	870413	1620	102	2	3	H	4.1	7.7	0.2	0.04	S665	.	.	13
4	870413	1620	102	2	3	H	4.1	7.7	0.2	0.04	S503	.	.	1
4	870413	1625	102	3	3	H	4.1	7.7	0.2	0.04	H124	4	3	11

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TRIP	DATE	TIME	STN	SET	HAUL	TIDE	THGHT	TEMP	SAL	CURR	SPEC	GROUP	STAGE	CATCH
4	870413	1625	102	3	3	H	4.1	7.7	0.2	0.04	S823	.	.	1
4	870413	1625	102	3	3	H	4.1	7.7	0.2	0.04	S665	.	.	6
4	870413	1625	102	3	3	H	4.1	7.7	0.2	0.04	S503	.	.	1
4	870413	1625	102	3	3	H	4.1	7.7	0.2	0.04	S817	.	.	1
4	870413	1650	101	1	3	H	4.1	7.9	0.6	0.10	H124	4	3	11
4	870413	1650	101	1	3	H	4.1	7.9	0.6	0.10	H112	4	3	10
4	870413	1650	101	1	3	H	4.1	7.9	0.6	0.10	H631	.	.	1
4	870413	1650	101	1	3	H	4.1	7.9	0.6	0.10	S665	.	.	1
4	870413	1655	101	2	3	H	4.1	7.9	0.6	0.10	H124	4	3	4
4	870413	1655	101	2	3	H	4.1	7.9	0.6	0.10	H112	4	3	8
4	870413	1655	101	2	3	H	4.1	7.9	0.6	0.10	S503	.	.	1
4	870413	1655	101	2	3	H	4.1	7.9	0.6	0.10	S665	.	.	1
4	870413	1705	101	3	3	H	4.1	7.9	0.6	0.10	H124	4	3	7
4	870413	1705	101	3	3	H	4.1	7.9	0.6	0.10	H112	4	3	2
4	870413	1720	104	1	3	H	4.1	6.5	0.0	0.00	H124	4	3	4
4	870413	1720	104	1	3	H	4.1	6.5	0.0	0.00	H112	4	3	7
4	870413	1720	104	1	3	H	4.1	6.5	0.0	0.00	H631	.	.	6
4	870413	1720	104	1	3	H	4.1	6.5	0.0	0.00	S665	.	.	1
4	870413	1720	104	1	3	H	4.1	6.5	0.0	0.00	S503	.	.	1
4	870413	1735	104	2	3	H	4.1	6.5	0.0	0.00	H124	4	3	6
4	870413	1735	104	2	3	H	4.1	6.5	0.0	0.00	H112	4	3	11
4	870413	1735	104	2	3	H	4.1	6.5	0.0	0.00	H631	.	.	6
4	870413	1735	104	2	3	H	4.1	6.5	0.0	0.00	S503	.	.	5
4	870413	1735	104	2	3	H	4.1	6.5	0.0	0.00	H518	.	.	1
4	870413	1735	104	2	3	H	4.1	6.5	0.0	0.00	H136	.	.	1
4	870413	1740	104	3	3	H	4.1	6.5	0.0	0.00	H124	4	3	6
4	870413	1740	104	3	3	H	4.1	6.5	0.0	0.00	H112	4	3	3
4	870413	1740	104	3	3	H	4.1	6.5	0.0	0.00	H631	.	.	3
4	870413	1740	104	3	3	H	4.1	6.5	0.0	0.00	S665	.	.	2
4	870413	1750	105	1	3	H	4.1	6.7	0.3	0.01	H124	4	3	19
4	870413	1750	105	1	3	H	4.1	6.7	0.3	0.01	S503	.	.	11
4	870413	1750	105	1	3	H	4.1	6.7	0.3	0.01	H136	.	.	1
4	870413	1750	105	1	3	H	4.1	6.7	0.3	0.01	S665	.	.	1
4	870413	1750	105	1	3	H	4.1	6.7	0.3	0.01	S817	.	.	1
4	870413	1800	105	2	3	H	4.1	6.7	0.3	0.01	H112	4	3	4
4	870413	1800	105	2	3	H	4.1	6.7	0.3	0.01	S503	.	.	1
4	870413	1800	105	2	3	H	4.1	6.7	0.3	0.01	H136	.	.	1
4	870413	1810	105	3	3	H	4.1	6.7	0.3	0.01	H124	4	3	1
4	870413	1810	105	3	3	H	4.1	6.7	0.3	0.01	S817	.	.	1
4	870414	520	109	1	3	H	4.3	6.7	0.0	0.00	H124	4	3	4
4	870414	520	109	1	3	H	4.3	6.7	0.0	0.00	H112	4	3	1
4	870414	520	109	1	3	H	4.3	6.7	0.0	0.00	S503	.	.	16
4	870414	520	109	1	3	H	4.3	6.7	0.0	0.00	S817	.	.	2
4	870414	530	109	2	3	H	4.3	6.7	0.0	0.00	H124	4	3	4
4	870414	530	109	2	3	H	4.3	6.7	0.0	0.00	H124	4	4	2

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TRIP	DATE	TIME	STN	SET	HAUL	TIDE	THGHT	TEMP	SAL	CURR	SPEC	GROUP	STAGE	CATCH
4	870414	530	109	2	3	H	4.3	6.7	0.0	0.00	H112	4	3	2
4	870414	530	109	2	3	H	4.3	6.7	0.0	0.00	S503	.	.	22
4	870414	530	109	2	3	H	4.3	6.7	0.0	0.00	S817	.	.	15
4	870414	530	109	2	3	H	4.3	6.7	0.0	0.00	S665	.	.	8
4	870414	530	109	2	3	H	4.3	6.7	0.0	0.00	H631	.	.	1
4	870414	540	109	3	3	H	4.3	6.7	0.0	0.00	H124	4	3	1
4	870414	540	109	3	3	H	4.3	6.7	0.0	0.00	H112	4	3	2
4	870414	540	109	3	3	H	4.3	6.7	0.0	0.00	S503	.	.	3
4	870414	540	109	3	3	H	4.3	6.7	0.0	0.00	S817	.	.	3
4	870414	555	110	1	3	H	4.3	6.3	0.0	0.00	H112	4	3	4
4	870414	555	110	1	3	H	4.3	6.3	0.0	0.00	H124	4	3	7
4	870414	555	110	1	3	H	4.3	6.3	0.0	0.00	H124	4	4	4
4	870414	555	110	1	3	H	4.3	6.3	0.0	0.00	S817	.	.	1
4	870414	555	110	1	3	H	4.3	6.3	0.0	0.00	S823	.	.	1
4	870414	555	110	1	3	H	4.3	6.3	0.0	0.00	S665	.	.	1
4	870414	555	110	1	3	H	4.3	6.3	0.0	0.00	H127	4	7	1
4	870414	605	110	2	3	H	4.3	6.3	0.0	0.00	H112	4	3	8
4	870414	605	110	2	3	H	4.3	6.3	0.0	0.00	H124	4	3	21
4	870414	605	110	2	3	H	4.3	6.3	0.0	0.00	S823	.	.	1
4	870414	605	110	2	3	H	4.3	6.3	0.0	0.00	S665	.	.	2
4	870414	605	110	2	3	H	4.3	6.3	0.0	0.00	H631	.	.	2
4	870414	605	110	2	3	H	4.3	6.3	0.0	0.00	H304	.	.	6
4	870414	605	110	2	3	H	4.3	6.3	0.0	0.00	S424	.	.	1
4	870414	605	110	2	3	H	4.3	6.3	0.0	0.00	H118	4	4	1
4	870414	610	110	3	3	H	4.3	6.3	0.0	0.00	H124	4	7	3
4	870414	610	110	3	3	H	4.3	6.3	0.0	0.00	S823	.	.	5
4	870414	610	110	3	3	H	4.3	6.3	0.0	0.00	H631	.	.	3
4	870414	610	110	3	3	H	4.3	6.3	0.0	0.00	H304	.	.	3
4	870414	610	110	3	3	H	4.3	6.3	0.0	0.00	S523	.	.	1
4	870414	1025	105	1	3	L	1.1	6.6	0.0	0.36	H124	4	7	2
4	870414	1025	105	1	3	L	1.1	6.6	0.0	0.36	S823	.	.	2
4	870414	1025	105	1	3	L	1.1	6.6	0.0	0.36	H304	.	.	14
4	870414	1025	105	1	3	L	1.1	6.6	0.0	0.36	H631	.	.	1
4	870414	1030	105	2	3	L	1.1	6.6	0.0	0.36	H124	4	7	3
4	870414	1030	105	2	3	L	1.1	6.6	0.0	0.36	H112	4	7	1
4	870414	1030	105	2	3	L	1.1	6.6	0.0	0.36	S823	.	.	1
4	870414	1030	105	2	3	L	1.1	6.6	0.0	0.36	H304	.	.	4
4	870414	1030	105	2	3	L	1.1	6.6	0.0	0.36	H631	.	.	3
4	870414	1040	105	3	3	L	1.1	6.6	0.0	0.36	H124	4	7	13
4	870414	1040	105	3	3	L	1.1	6.6	0.0	0.36	H112	4	7	1
4	870414	1040	105	3	3	L	1.1	6.6	0.0	0.36	S823	.	.	1
4	870414	1040	105	3	3	L	1.1	6.6	0.0	0.36	H304	.	.	6
4	870414	1040	105	3	3	L	1.1	6.6	0.0	0.36	H631	.	.	6
4	870414	1040	105	3	3	L	1.1	6.6	0.0	0.36	H136	.	.	1
4	870414	1115	109	1	3	L	1.1	7.9	0.0	0.02	H124	4	3	9

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TRIP	DATE	TIME	STN	SET	HAUL	TIDE	THGHT	TEMP	SAL	CURR	SPEC	GROUP	STAGE	CATCH
4	870414	1115	109	1	3	L	1.1	7.9	0.0	0.02	H112	4	3	10
4	870414	1115	109	1	3	L	1.1	7.9	0.0	0.02	H631	.	.	12
4	870414	1115	109	1	3	L	1.1	7.9	0.0	0.02	H304	.	.	2
4	870414	1115	109	1	3	L	1.1	7.9	0.0	0.02	S823	.	.	4
4	870414	1115	109	1	3	L	1.1	7.9	0.0	0.02	S665	.	.	2
4	870414	1125	109	2	3	L	1.1	7.9	0.0	0.02	H124	4	3	5
4	870414	1125	109	2	3	L	1.1	7.9	0.0	0.02	H112	4	3	3
4	870414	1125	109	2	3	L	1.1	7.9	0.0	0.02	S544	.	.	1
4	870414	1125	109	2	3	L	1.1	7.9	0.0	0.02	H631	.	.	14
4	870414	1125	109	2	3	L	1.1	7.9	0.0	0.02	H304	.	.	6
4	870414	1125	109	2	3	L	1.1	7.9	0.0	0.02	S823	.	.	2
4	870414	1125	109	2	3	L	1.1	7.9	0.0	0.02	S665	.	.	1
4	870414	1135	109	3	3	L	1.1	7.9	0.0	0.02	H124	4	3	1
4	870414	1135	109	3	3	L	1.1	7.9	0.0	0.02	H112	4	3	3
4	870414	1135	109	3	3	L	1.1	7.9	0.0	0.02	H631	.	.	1
4	870414	1135	109	3	3	L	1.1	7.9	0.0	0.02	H304	.	.	4
4	870414	1135	109	3	3	L	1.1	7.9	0.0	0.02	S823	.	.	4
4	870414	1200	110	1	3	L	1.1	7.7	0.0	0.42	H124	4	7	11
4	870414	1200	110	1	3	L	1.1	7.7	0.0	0.42	H124	1	4	1
4	870414	1200	110	1	3	L	1.1	7.7	0.0	0.42	H112	4	7	2
4	870414	1200	110	1	3	L	1.1	7.7	0.0	0.42	H631	.	.	30
4	870414	1200	110	1	3	L	1.1	7.7	0.0	0.42	S823	.	.	24
4	870414	1200	110	1	3	L	1.1	7.7	0.0	0.42	S665	.	.	2
4	870414	1200	110	1	3	L	1.1	7.7	0.0	0.42	H136	.	.	1
4	870414	1210	110	2	3	L	1.1	7.7	0.0	0.42	H124	4	7	5
4	870414	1210	110	2	3	L	1.1	7.7	0.0	0.42	H631	.	.	15
4	870414	1210	110	2	3	L	1.1	7.7	0.0	0.42	S823	.	.	12
4	870414	1210	110	2	3	L	1.1	7.7	0.0	0.42	S665	.	.	2
4	870414	1210	110	2	3	L	1.1	7.7	0.0	0.42	H304	.	.	3
4	870414	1340	110	3	3	L	1.1	7.7	0.0	0.42	H124	4	7	8
4	870414	1340	110	3	3	L	1.1	7.7	0.0	0.42	H112	4	7	4
4	870414	1340	110	3	3	L	1.1	7.7	0.0	0.42	H631	.	.	6
4	870414	1340	110	3	3	L	1.1	7.7	0.0	0.42	S823	.	.	13
4	870414	1340	110	3	3	L	1.1	7.7	0.0	0.42	S665	.	.	4
4	870414	1340	110	3	3	L	1.1	7.7	0.0	0.42	H136	.	.	1
6	870430	515	101	1	3	H	4.0	10.9	2.2	0.00	H124	4	3	10
6	870430	515	101	1	3	H	4.0	10.9	2.2	0.00	H124	4	4	1
6	870430	515	101	1	3	H	4.0	10.9	2.2	0.00	H112	4	7	31
6	870430	515	101	1	3	H	4.0	10.9	2.2	0.00	H128	4	7	1
6	870430	515	101	1	3	H	4.0	10.9	2.2	0.00	S665	.	.	2
6	870430	515	101	1	3	H	4.0	10.9	2.2	0.00	H631	.	.	1
6	870430	515	101	1	3	H	4.0	10.9	2.2	0.00	H518	.	.	2
6	870430	515	101	1	3	H	4.0	10.9	2.2	0.00	S424	.	.	8
6	870430	515	101	1	3	H	4.0	10.9	2.2	0.00	H118	4	7	1
6	870430	520	101	2	3	H	4.0	10.9	2.2	0.00	H124	4	3	3

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TRIP	DATE	TIME	STN	SET	HAUL	TIDE	THGHT	TEMP	SAL	CURR	SPEC	GROUP	STAGE	CATCH
6	870430	520	101	2	3	H	4.0	10.9	2.2	0.00	H124	4	4	4
6	870430	520	101	2	3	H	4.0	10.9	2.2	0.00	H112	4	7	17
6	870430	520	101	2	3	H	4.0	10.9	2.2	0.00	S665	.	.	4
6	870430	520	101	2	3	H	4.0	10.9	2.2	0.00	H631	.	.	2
6	870430	520	101	2	3	H	4.0	10.9	2.2	0.00	S424	.	.	5
6	870430	525	101	3	3	H	4.0	10.9	2.2	0.00	H124	4	3	3
6	870430	525	101	3	3	H	4.0	10.9	2.2	0.00	H112	4	7	17
6	870430	525	101	3	3	H	4.0	10.9	2.2	0.00	S665	.	.	5
6	870430	525	101	3	3	H	4.0	10.9	2.2	0.00	H631	.	.	2
6	870430	525	101	3	3	H	4.0	10.9	2.2	0.00	S424	.	.	1
6	870430	555	102	1	3	H	4.0	10.8	1.9	0.00	H124	4	3	15
6	870430	555	102	1	3	H	4.0	10.8	1.9	0.00	H124	4	4	2
6	870430	555	102	1	3	H	4.0	10.8	1.9	0.00	H112	4	7	2
6	870430	555	102	1	3	H	4.0	10.8	1.9	0.00	S424	.	.	3
6	870430	555	102	1	3	H	4.0	10.8	1.9	0.00	S823	.	.	2
6	870430	600	102	2	3	H	4.0	10.8	1.9	0.00	H124	4	3	3
6	870430	600	102	2	3	H	4.0	10.8	1.9	0.00	H124	4	4	1
6	870430	600	102	2	3	H	4.0	10.8	1.9	0.00	H112	4	7	1
6	870430	600	102	2	3	H	4.0	10.8	1.9	0.00	S424	.	.	3
6	870430	600	102	2	3	H	4.0	10.8	1.9	0.00	S823	.	.	3
6	870430	600	102	2	3	H	4.0	10.8	1.9	0.00	S665	.	.	5
6	870430	605	102	3	3	H	4.0	10.8	1.9	0.00	H124	4	3	2
6	870430	605	102	3	3	H	4.0	10.8	1.9	0.00	S823	.	.	1
6	870430	605	102	3	3	H	4.0	10.8	1.9	0.00	S665	.	.	1
6	870430	625	104	1	3	H	4.0	10.1	0.3	0.20	H124	4	3	4
6	870430	625	104	1	3	H	4.0	10.1	0.3	0.20	H124	4	4	1
6	870430	625	104	1	3	H	4.0	10.1	0.3	0.20	H112	4	7	4
6	870430	625	104	1	3	H	4.0	10.1	0.3	0.20	S665	.	.	1
6	870430	625	104	1	3	H	4.0	10.1	0.3	0.20	H631	.	.	1
6	870430	625	104	1	3	H	4.0	10.1	0.3	0.20	S424	.	.	7
6	870430	625	104	1	3	H	4.0	10.1	0.3	0.20	S823	.	.	3
6	870430	630	104	2	3	H	4.0	10.1	0.3	0.20	H124	4	3	6
6	870430	630	104	2	3	H	4.0	10.1	0.3	0.20	H124	4	4	2
6	870430	630	104	2	3	H	4.0	10.1	0.3	0.20	H112	4	7	2
6	870430	630	104	2	3	H	4.0	10.1	0.3	0.20	S665	.	.	1
6	870430	630	104	2	3	H	4.0	10.1	0.3	0.20	S424	.	.	6
6	870430	630	104	2	3	H	4.0	10.1	0.3	0.20	S503	.	.	1
6	870430	635	104	3	3	H	4.0	10.1	0.3	0.20	H124	4	3	7
6	870430	635	104	3	3	H	4.0	10.1	0.3	0.20	S424	.	.	8
6	870430	635	104	3	3	H	4.0	10.1	0.3	0.20	S823	.	.	1
6	870430	650	105	1	3	H	4.0	10.4	0.0	0.00	H124	4	3	6
6	870430	650	105	1	3	H	4.0	10.4	0.0	0.00	H124	4	4	2
6	870430	650	105	1	3	H	4.0	10.4	0.0	0.00	H112	4	7	4
6	870430	650	105	1	3	H	4.0	10.4	0.0	0.00	S424	.	.	2
6	870430	650	105	1	3	H	4.0	10.4	0.0	0.00	H304	.	.	1

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TRIP	DATE	TIME	STN	SET	HAUL	TIDE	THGHT	TEMP	SAL	CURR	SPEC	GROUP	STAGE	CATCH
6	870430	652	105	2	3	H	4.0	10.4	0.0	0.00	H124	4	3	3
6	870430	652	105	2	3	H	4.0	10.4	0.0	0.00	H124	4	4	2
6	870430	652	105	2	3	H	4.0	10.4	0.0	0.00	H112	4	7	7
6	870430	652	105	2	3	H	4.0	10.4	0.0	0.00	S424	.	.	4
6	870430	652	105	2	3	H	4.0	10.4	0.0	0.00	S665	.	.	3
6	870430	652	105	2	3	H	4.0	10.4	0.0	0.00	H631	.	.	1
6	870430	655	105	3	3	H	4.0	10.4	0.0	0.00	H124	4	3	8
6	870430	655	105	3	3	H	4.0	10.4	0.0	0.00	H124	4	4	5
6	870430	655	105	3	3	H	4.0	10.4	0.0	0.00	H112	4	7	1
6	870430	655	105	3	3	H	4.0	10.4	0.0	0.00	S424	.	.	7
6	870430	655	105	3	3	H	4.0	10.4	0.0	0.00	S665	.	.	2
6	870430	655	105	3	3	H	4.0	10.4	0.0	0.00	S487	.	.	1
6	870430	655	105	3	3	H	4.0	10.4	0.0	0.00	S503	.	.	1
6	870430	655	105	3	3	H	4.0	10.4	0.0	0.00	S823	.	.	2
6	870430	1100	101	1	3	L	0.8	10.2	0.7	0.27	H124	4	3	7
6	870430	1100	101	1	3	L	0.8	10.2	0.7	0.27	H124	4	4	1
6	870430	1100	101	1	3	L	0.8	10.2	0.7	0.27	H112	4	7	2
6	870430	1100	101	1	3	L	0.8	10.2	0.7	0.27	S424	.	.	175
6	870430	1100	101	1	3	L	0.8	10.2	0.7	0.27	H518	.	.	17
6	870430	1100	101	1	3	L	0.8	10.2	0.7	0.27	H631	.	.	84
6	870430	1100	101	1	3	L	0.8	10.2	0.7	0.27	S665	.	.	1
6	870430	1105	101	2	3	L	0.8	10.2	0.7	0.27	H124	4	3	6
6	870430	1105	101	2	3	L	0.8	10.2	0.7	0.27	H112	4	7	2
6	870430	1105	101	2	3	L	0.8	10.2	0.7	0.27	H118	4	4	3
6	870430	1105	101	2	3	L	0.8	10.2	0.7	0.27	H518	.	.	1
6	870430	1105	101	2	3	L	0.8	10.2	0.7	0.27	H631	.	.	3
6	870430	1105	101	2	3	L	0.8	10.2	0.7	0.27	S665	.	.	2
6	870430	1105	101	2	3	L	0.8	10.2	0.7	0.27	S823	.	.	1
6	870430	1110	101	3	3	L	0.8	10.2	0.7	0.27	H124	4	3	5
6	870430	1110	101	3	3	L	0.8	10.2	0.7	0.27	H112	4	7	11
6	870430	1110	101	3	3	L	0.8	10.2	0.7	0.27	H118	4	4	3
6	870430	1110	101	3	3	L	0.8	10.2	0.7	0.27	S424	.	.	2
6	870430	1110	101	3	3	L	0.8	10.2	0.7	0.27	H631	.	.	10
6	870430	1110	101	3	3	L	0.8	10.2	0.7	0.27	S665	.	.	6
6	870430	1110	101	3	3	L	0.8	10.2	0.7	0.27	S823	.	.	2
6	870430	1135	102	1	2	L	0.8	11.6	1.7	0.07	H124	4	3	11
6	870430	1135	102	1	2	L	0.8	11.6	1.7	0.07	H112	4	7	5
6	870430	1135	102	1	2	L	0.8	11.6	1.7	0.07	H631	.	.	10
6	870430	1135	102	1	2	L	0.8	11.6	1.7	0.07	S523	.	.	1
6	870430	1135	102	1	2	L	0.8	11.6	1.7	0.07	S424	.	.	8
6	870430	1135	102	1	2	L	0.8	11.6	1.7	0.07	S823	.	.	12
6	870430	1150	102	2	2	L	0.8	11.6	1.7	0.07	H124	4	3	35
6	870430	1150	102	2	2	L	0.8	11.6	1.7	0.07	H112	4	7	5
6	870430	1150	102	2	2	L	0.8	11.6	1.7	0.07	H631	.	.	2
6	870430	1150	102	2	2	L	0.8	11.6	1.7	0.07	S424	.	.	3

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TRIP	DATE	TIME	STN	SET	HAUL	TIDE	THGHT	TEMP	SAL	CURR	SPEC	GROUP	STAGE	CATCH
6	870430	1150	102	2	2	L	0.8	11.6	1.7	0.07	S823	.	.	3
6	870430	1150	102	2	2	L	0.8	11.6	1.7	0.07	S665	.	.	1
6	870430	1320	104	1	3	L	0.8	10.5	0.0	0.41	H124	4	3	63
6	870430	1320	104	1	3	L	0.8	10.5	0.0	0.41	H112	4	7	13
6	870430	1320	104	1	3	L	0.8	10.5	0.0	0.41	S424	.	.	99
6	870430	1320	104	1	3	L	0.8	10.5	0.0	0.41	H631	.	.	13
6	870430	1320	104	1	3	L	0.8	10.5	0.0	0.41	S823	.	.	10
6	870430	1320	104	1	3	L	0.8	10.5	0.0	0.41	S665	.	.	8
6	870430	1320	104	1	3	L	0.8	10.5	0.0	0.41	H124	4	4	18
6	870430	1320	104	1	3	L	0.8	10.5	0.0	0.41	H136	.	.	13
6	870430	1320	104	1	3	L	0.8	10.5	0.0	0.41	H118	4	4	4
6	870430	1320	104	1	3	L	0.8	10.5	0.0	0.41	S503	.	.	9
6	870430	1320	104	1	3	L	0.8	10.5	0.0	0.41	H148	.	.	4
6	870430	1320	104	1	3	L	0.8	10.5	0.0	0.41	H518	.	.	1
6	870430	1320	104	1	3	L	0.8	10.5	0.0	0.41	H107	4	7	5
6	870430	1320	104	1	3	L	0.8	10.5	0.0	0.41	H124	4	3	17
6	870430	1325	104	2	3	L	0.8	10.5	0.0	0.41	S424	.	.	4
6	870430	1325	104	2	3	L	0.8	10.5	0.0	0.41	H631	.	.	1
6	870430	1325	104	2	3	L	0.8	10.5	0.0	0.41	S823	.	.	8
6	870430	1325	104	2	3	L	0.8	10.5	0.0	0.41	H124	4	4	1
6	870430	1325	104	2	3	L	0.8	10.5	0.0	0.41	H136	.	.	1
6	870430	1325	104	2	3	L	0.8	10.5	0.0	0.41	H118	4	3	2
6	870430	1325	104	2	3	L	0.8	10.5	0.0	0.41	H107	4	7	1
6	870430	1325	104	2	3	L	0.8	10.5	0.0	0.41	H124	4	3	16
6	870430	1330	104	3	3	L	0.8	10.5	0.0	0.41	H112	4	7	1
6	870430	1330	104	3	3	L	0.8	10.5	0.0	0.41	S424	.	.	7
6	870430	1330	104	3	3	L	0.8	10.5	0.0	0.41	H631	.	.	1
6	870430	1330	104	3	3	L	0.8	10.5	0.0	0.41	S823	.	.	2
6	870430	1330	104	3	3	L	0.8	10.5	0.0	0.41	S665	.	.	1
6	870430	1330	104	3	3	L	0.8	10.5	0.0	0.41	H124	4	4	3
6	870430	1330	104	3	3	L	0.8	10.5	0.0	0.41	H136	.	.	3
6	870430	1330	104	3	3	L	0.8	10.5	0.0	0.41	S503	.	.	3
6	870430	1330	104	3	3	L	0.8	10.5	0.0	0.41	H148	.	.	1
6	870430	1330	104	3	3	L	0.8	10.5	0.0	0.41	H124	4	3	9
6	870430	1335	105	1	3	L	0.8	10.5	0.0	0.41	S424	.	.	9
6	870430	1335	105	1	3	L	0.8	10.5	0.0	0.41	H146	.	.	1
6	870430	1335	105	1	3	L	0.8	10.5	0.0	0.41	H631	.	.	5
6	870430	1335	105	1	3	L	0.8	10.5	0.0	0.41	S823	.	.	12
6	870430	1335	105	1	3	L	0.8	10.5	0.0	0.41	S665	.	.	1
6	870430	1335	105	1	3	L	0.8	10.5	0.0	0.41	H124	4	4	1
6	870430	1335	105	1	3	L	0.8	10.5	0.0	0.41	H124	4	3	1
6	870430	1340	105	2	3	L	0.8	10.5	0.0	0.41	H112	4	7	1
6	870430	1340	105	2	3	L	0.8	10.5	0.0	0.41	S424	.	.	37
6	870430	1340	105	2	3	L	0.8	10.5	0.0	0.41	H146	.	.	1
6	870430	1340	105	2	3	L	0.8	10.5	0.0	0.41	H631	.	.	16

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6	870430	1340	105	2	3	L	0.8	10.5	0.0	0.41	S823	.	.	58
6	870430	1340	105	2	3	L	0.8	10.5	0.0	0.41	S036	.	.	1
6	870430	1345	105	3	3	L	0.8	10.5	0.0	0.41	H124	4	3	5
6	870430	1345	105	3	3	L	0.8	10.5	0.0	0.41	H112	4	7	1
6	870430	1345	105	3	3	L	0.8	10.5	0.0	0.41	S424	.	.	6
6	870430	1345	105	3	3	L	0.8	10.5	0.0	0.41	H146	.	.	1
6	870430	1345	105	3	3	L	0.8	10.5	0.0	0.41	H631	.	.	1
6	870430	1345	105	3	3	L	0.8	10.5	0.0	0.41	S823	.	.	3
7	870514	500	101	1	3	H	4.3	11.7	0.7	0.00	S665	.	.	1
7	870514	500	101	1	3	H	4.3	11.7	0.7	0.00	H124	4	3	1
7	870514	500	101	1	3	H	4.3	11.7	0.7	0.00	H124	4	4	1
7	870514	500	101	1	3	H	4.3	11.7	0.7	0.00	S424	.	.	8
7	870514	500	101	1	3	H	4.3	11.7	0.7	0.00	H112	4	7	2
7	870514	505	101	2	3	H	4.3	11.7	0.7	0.00	S665	.	.	3
7	870514	505	101	2	3	H	4.3	11.7	0.7	0.00	S424	.	.	9
7	870514	510	101	3	3	H	4.3	11.7	0.7	0.00	H124	4	3	2
7	870514	510	101	3	3	H	4.3	11.7	0.7	0.00	S424	.	.	11
7	870514	520	102	1	3	H	4.3	11.2	0.4	0.00	H124	4	3	1
7	870514	520	102	1	3	H	4.3	11.2	0.4	0.00	S424	.	.	37
7	870514	520	102	1	3	H	4.3	11.2	0.4	0.00	S503	.	.	3
7	870514	520	102	1	3	H	4.3	11.2	0.4	0.00	S487	.	.	1
7	870514	520	102	1	3	H	4.3	11.2	0.4	0.00	S665	.	.	1
7	870514	525	102	2	3	H	4.3	11.2	0.4	0.00	H124	4	3	8
7	870514	525	102	2	3	H	4.3	11.2	0.4	0.00	H112	4	7	3
7	870514	525	102	2	3	H	4.3	11.2	0.4	0.00	S424	.	.	26
7	870514	525	102	2	3	H	4.3	11.2	0.4	0.00	S503	.	.	1
7	870514	525	102	2	3	H	4.3	11.2	0.4	0.00	H124	4	4	4
7	870514	530	102	3	3	H	4.3	11.2	0.4	0.00	H124	4	3	9
7	870514	530	102	3	3	H	4.3	11.2	0.4	0.00	H112	4	7	2
7	870514	530	102	3	3	H	4.3	11.2	0.4	0.00	S424	.	.	43
7	870514	530	102	3	3	H	4.3	11.2	0.4	0.00	S503	.	.	1
7	870514	530	102	3	3	H	4.3	11.2	0.4	0.00	S487	.	.	1
7	870514	530	102	3	3	H	4.3	11.2	0.4	0.00	S665	.	.	1
7	870514	530	102	3	3	H	4.3	11.2	0.4	0.00	H124	4	4	3
7	870514	600	104	1	3	H	4.3	10.9	0.0	0.00	H124	4	4	16
7	870514	600	104	1	3	H	4.3	10.9	0.0	0.00	H118	4	7	3
7	870514	600	104	1	3	H	4.3	10.9	0.0	0.00	H143	.	.	3
7	870514	600	104	1	3	H	4.3	10.9	0.0	0.00	H124	1	7	3
7	870514	600	104	1	3	H	4.3	10.9	0.0	0.00	S665	.	.	2
7	870514	600	104	1	3	H	4.3	10.9	0.0	0.00	S424	.	.	1
7	870514	600	104	1	3	H	4.3	10.9	0.0	0.00	S503	.	.	2
7	870514	600	104	1	3	H	4.3	10.9	0.0	0.00	H124	4	3	5
7	870514	600	104	1	3	H	4.3	10.9	0.0	0.00	S823	.	.	7
7	870514	600	104	1	3	H	4.3	10.9	0.0	0.00	S494	.	.	1
7	870514	600	104	1	3	H	4.3	10.9	0.0	0.00	H112	4	7	2

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TRIP	DATE	TIME	STN	SET	HAUL	TIDE	THGHT	TEMP	SAL	CURR	SPEC	GROUP	STAGE	CATCH
7	870514	605	104	2	3	H	4.3	10.9	0.0	0.00	H124	4	4	4
7	870514	605	104	2	3	H	4.3	10.9	0.0	0.00	H118	4	7	2
7	870514	605	104	2	3	H	4.3	10.9	0.0	0.00	H124	1	7	2
7	870514	605	104	2	3	H	4.3	10.9	0.0	0.00	S424	.	.	3
7	870514	605	104	2	3	H	4.3	10.9	0.0	0.00	H124	4	3	1
7	870514	605	104	2	3	H	4.3	10.9	0.0	0.00	S823	.	.	1
7	870514	610	104	3	3	H	4.3	10.9	0.0	0.00	H124	4	4	6
7	870514	610	104	3	3	H	4.3	10.9	0.0	0.00	H124	1	7	1
7	870514	610	104	3	3	H	4.3	10.9	0.0	0.00	S665	.	.	2
7	870514	610	104	3	3	H	4.3	10.9	0.0	0.00	S424	.	.	3
7	870514	610	104	3	3	H	4.3	10.9	0.0	0.00	H112	4	7	1
7	870514	610	104	3	3	H	4.3	10.9	0.0	0.00	H148	.	.	1
7	870514	610	104	3	3	H	4.3	10.9	0.0	0.00	H631	.	.	1
7	870514	625	105	1	3	H	4.3	10.6	0.0	0.00	H115	4	4	3
7	870514	625	105	1	3	H	4.3	10.6	0.0	0.00	H118	4	3	1
7	870514	625	105	1	3	H	4.3	10.6	0.0	0.00	H118	4	4	1
7	870514	625	105	1	3	H	4.3	10.6	0.0	0.00	H124	4	3	1
7	870514	630	105	2	3	H	4.3	10.6	0.0	0.00	H124	4	3	2
7	870514	630	105	2	3	H	4.3	10.6	0.0	0.00	S823	.	.	1
7	870514	630	105	2	3	H	4.3	10.6	0.0	0.00	H124	4	4	1
7	870514	635	105	3	3	H	4.3	10.6	0.0	0.00	H118	4	3	1
7	870514	635	105	3	3	H	4.3	10.6	0.0	0.00	H124	4	3	7
7	870514	635	105	3	3	H	4.3	10.6	0.0	0.00	S823	.	.	2
7	870514	635	105	3	3	H	4.3	10.6	0.0	0.00	S503	.	.	1
7	870514	635	105	3	3	H	4.3	10.6	0.0	0.00	S424	.	.	1
7	870514	635	105	3	3	H	4.3	10.6	0.0	0.00	H112	4	7	2
7	870514	635	105	3	3	H	4.3	10.6	0.0	0.00	H143	.	.	1
7	870514	1030	104	1	3	L	0.2	11.8	0.2	.	H143	.	.	1
7	870514	1030	104	1	3	L	0.2	11.8	0.2	.	S503	.	.	3
7	870514	1030	104	1	3	L	0.2	11.8	0.2	.	H124	4	3	16
7	870514	1030	104	1	3	L	0.2	11.8	0.2	.	H124	4	4	13
7	870514	1030	104	1	3	L	0.2	11.8	0.2	.	S424	.	.	30
7	870514	1030	104	1	3	L	0.2	11.8	0.2	.	S665	.	.	14
7	870514	1030	104	1	3	L	0.2	11.8	0.2	.	H118	4	4	1
7	870514	1030	104	1	3	L	0.2	11.8	0.2	.	H118	4	3	4
7	870514	1030	104	1	3	L	0.2	11.8	0.2	.	S823	.	.	75
7	870514	1030	104	1	3	L	0.2	11.8	0.2	.	H124	1	7	4
7	870514	1030	104	1	3	L	0.2	11.8	0.2	.	H134	4	7	1
7	870514	1030	104	1	3	L	0.2	11.8	0.2	.	H115	4	4	3
7	870514	1030	104	1	3	L	0.2	11.8	0.2	.	H115	1	4	3
7	870514	1030	104	1	3	L	0.2	11.8	0.2	.	H107	4	7	2
7	870514	1030	104	1	3	L	0.2	11.8	0.2	.	S487	.	.	9
7	870514	1030	104	1	3	L	0.2	11.8	0.2	.	H112	4	7	1
7	870514	1030	104	1	3	L	0.2	11.8	0.2	.	H631	.	.	17
7	870514	1030	104	1	3	L	0.2	11.8	0.2	.	S291	.	.	1

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TRIP	DATE	TIME	STN	SET	HAUL	TIDE	THGHT	TEMP	SAL	CURR	SPEC	GROUP	STAGE	CATCH
7	870514	1030	104	1	3	L	0.2	11.8	0.2	.	H128	4	7	1
7	870514	1030	104	1	3	L	0.2	11.8	0.2	.	S494	.	.	1
7	870514	1045	104	2	3	L	0.2	11.8	0.2	.	H124	4	3	7
7	870514	1045	104	2	3	L	0.2	11.8	0.2	.	H124	4	4	1
7	870514	1045	104	2	3	L	0.2	11.8	0.2	.	S665	.	.	3
7	870514	1045	104	2	3	L	0.2	11.8	0.2	.	S823	.	.	3
7	870514	1045	104	2	3	L	0.2	11.8	0.2	.	H124	1	7	1
7	870514	1055	104	3	3	L	0.2	11.8	0.2	.	S503	.	.	1
7	870514	1055	104	3	3	L	0.2	11.8	0.2	.	H124	4	4	1
7	870514	1055	104	3	3	L	0.2	11.8	0.2	.	S424	.	.	2
7	870514	1055	104	3	3	L	0.2	11.8	0.2	.	S665	.	.	1
7	870514	1055	104	3	3	L	0.2	11.8	0.2	.	H118	4	4	1
7	870514	1055	104	3	3	L	0.2	11.8	0.2	.	H118	4	3	1
7	870514	1055	104	3	3	L	0.2	11.8	0.2	.	S823	.	.	28
7	870514	1055	104	3	3	L	0.2	11.8	0.2	.	S817	.	.	1
7	870514	1125	105	1	3	L	0.2	.	.	.	H124	4	4	2
7	870514	1125	105	1	3	L	0.2	.	.	.	S823	.	.	94
7	870514	1125	105	1	3	L	0.2	.	.	.	S424	.	.	2
7	870514	1125	105	1	3	L	0.2	.	.	.	H631	.	.	10
7	870514	1125	105	1	3	L	0.2	.	.	.	S503	.	.	3
7	870514	1125	105	1	3	L	0.2	.	.	.	H115	4	4	1
7	870514	1125	105	1	3	L	0.2	.	.	.	H124	1	7	1
7	870514	1135	105	2	3	L	0.2	.	.	.	H124	4	3	2
7	870514	1135	105	2	3	L	0.2	.	.	.	H124	4	4	6
7	870514	1135	105	2	3	L	0.2	.	.	.	S823	.	.	3
7	870514	1135	105	2	3	L	0.2	.	.	.	S665	.	.	1
7	870514	1145	105	3	3	L	0.2	.	.	.	H124	4	3	1
7	870514	1145	105	3	3	L	0.2	.	.	.	H124	4	4	4
7	870514	1145	105	3	3	L	0.2	.	.	.	S823	.	.	6
7	870514	1145	105	3	3	L	0.2	.	.	.	S665	.	.	1
7	870514	1145	105	3	3	L	0.2	.	.	.	S424	.	.	1
7	870514	1145	105	3	3	L	0.2	.	.	.	H631	.	.	1
7	870514	1210	102	1	3	L	0.2	12.7	0.3	0.00	H124	4	3	8
7	870514	1210	102	1	3	L	0.2	12.7	0.3	0.00	H124	4	4	3
7	870514	1210	102	1	3	L	0.2	12.7	0.3	0.00	S424	.	.	31
7	870514	1210	102	1	3	L	0.2	12.7	0.3	0.00	S665	.	.	1
7	870514	1210	102	1	3	L	0.2	12.7	0.3	0.00	H631	.	.	2
7	870514	1210	102	1	3	L	0.2	12.7	0.3	0.00	S823	.	.	6
7	870514	1210	102	1	3	L	0.2	12.7	0.3	0.00	S487	.	.	3
7	870514	1210	102	1	3	L	0.2	12.7	0.3	0.00	S503	.	.	3
7	870514	1210	102	1	3	L	0.2	12.7	0.3	0.00	H518	.	.	1
7	870514	1220	102	2	3	L	0.2	12.7	0.3	0.00	H124	4	3	4
7	870514	1220	102	2	3	L	0.2	12.7	0.3	0.00	H124	4	4	3
7	870514	1220	102	2	3	L	0.2	12.7	0.3	0.00	S424	.	.	11
7	870514	1220	102	2	3	L	0.2	12.7	0.3	0.00	H124	1	7	1

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7	870514	1220	102	2	3	L	0.2	12.7	0.3	0.00	H631	.	.	2
7	870514	1220	102	2	3	L	0.2	12.7	0.3	0.00	S823	.	.	5
7	870514	1230	102	3	3	L	0.2	12.7	0.3	0.00	H124	4	3	8
7	870514	1230	102	3	3	L	0.2	12.7	0.3	0.00	H124	4	4	1
7	870514	1230	102	3	3	L	0.2	12.7	0.3	0.00	S424	.	.	14
7	870514	1230	102	3	3	L	0.2	12.7	0.3	0.00	S823	.	.	4
7	870514	1230	102	3	3	L	0.2	12.7	0.3	0.00	H115	4	4	2
7	870514	1230	102	3	3	L	0.2	12.7	0.3	0.00	S487	.	.	1
7	870514	1230	102	3	3	L	0.2	12.7	0.3	0.00	H112	4	7	1
7	870514	1245	101	1	3	L	0.2	11.3	0.9	0.33	H148	.	.	166
7	870514	1245	101	1	3	L	0.2	11.3	0.9	0.33	H124	4	3	13
7	870514	1245	101	1	3	L	0.2	11.3	0.9	0.33	H124	4	4	1
7	870514	1245	101	1	3	L	0.2	11.3	0.9	0.33	H631	.	.	12
7	870514	1245	101	1	3	L	0.2	11.3	0.9	0.33	S424	.	.	23
7	870514	1245	101	1	3	L	0.2	11.3	0.9	0.33	S823	.	.	3
7	870514	1250	101	2	3	L	0.2	11.3	0.9	0.33	H148	.	.	33
7	870514	1250	101	2	3	L	0.2	11.3	0.9	0.33	H124	4	3	7
7	870514	1250	101	2	3	L	0.2	11.3	0.9	0.33	H631	.	.	4
7	870514	1250	101	2	3	L	0.2	11.3	0.9	0.33	H518	.	.	2
7	870514	1250	101	2	3	L	0.2	11.3	0.9	0.33	S424	.	.	8
7	870514	1250	101	2	3	L	0.2	11.3	0.9	0.33	S823	.	.	3
7	870514	1250	101	2	3	L	0.2	11.3	0.9	0.33	S665	.	.	4
7	870514	1300	101	3	3	L	0.2	11.3	0.9	0.33	H148	.	.	145
7	870514	1300	101	3	3	L	0.2	11.3	0.9	0.33	H124	4	3	10
7	870514	1300	101	3	3	L	0.2	11.3	0.9	0.33	H124	4	4	1
7	870514	1300	101	3	3	L	0.2	11.3	0.9	0.33	H631	.	.	21
7	870514	1300	101	3	3	L	0.2	11.3	0.9	0.33	H518	.	.	1
7	870514	1300	101	3	3	L	0.2	11.3	0.9	0.33	S036	.	.	1
7	870514	1300	101	3	3	L	0.2	11.3	0.9	0.33	S424	.	.	9
7	870514	1300	101	3	3	L	0.2	11.3	0.9	0.33	S503	.	.	1
7	870514	1300	101	3	3	L	0.2	11.3	0.9	0.33	S823	.	.	1
8	870528	515	101	1	3	H	4.0	12.6	1.9	0.00		.	.	0
8	870528	520	101	2	3	H	4.0	12.6	1.9	0.00	H124	4	4	1
8	870528	520	101	2	3	H	4.0	12.6	1.9	0.00	H112	4	3	1
8	870528	525	101	3	3	H	4.0	12.6	1.9	0.00	S424	.	.	1
8	870528	540	102	1	3	H	4.0	11.9	1.0	0.00	H118	4	3	40
8	870528	540	102	1	3	H	4.0	11.9	1.0	0.00	H124	4	4	4
8	870528	540	102	1	3	H	4.0	11.9	1.0	0.00	S424	.	.	4
8	870528	540	102	1	3	H	4.0	11.9	1.0	0.00	H115	4	4	2
8	870528	540	102	1	3	H	4.0	11.9	1.0	0.00	S503	.	.	1
8	870528	545	102	2	3	H	4.0	11.9	1.0	0.00	H124	4	4	2
8	870528	545	102	2	3	H	4.0	11.9	1.0	0.00	S503	.	.	1
8	870528	545	102	2	3	H	4.0	11.9	1.0	0.00	S665	.	.	2
8	870528	545	102	2	3	H	4.0	11.9	1.0	0.00	H112	4	3	7
8	870528	550	102	3	3	H	4.0	11.9	1.0	0.00	H124	4	4	3

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TRIP	DATE	TIME	STN	SET	HAUL	TIDE	THGHT	TEMP	SAL	CURR	SPEC	GROUP	STAGE	CATCH
8	870528	550	102	3	3	H	4.0	11.9	1.0	0.00	H115	4	4	2
8	870528	550	102	3	3	H	4.0	11.9	1.0	0.00	S503	.	.	6
8	870528	550	102	3	3	H	4.0	11.9	1.0	0.00	S665	.	.	3
8	870528	610	104	1	3	H	4.0	12.0	0.0	0.00	H124	4	4	13
8	870528	610	104	1	3	H	4.0	12.0	0.0	0.00	S424	.	.	2
8	870528	610	104	1	3	H	4.0	12.0	0.0	0.00	H118	4	3	11
8	870528	610	104	1	3	H	4.0	12.0	0.0	0.00	S665	.	.	1
8	870528	610	104	1	3	H	4.0	12.0	0.0	0.00	H115	4	4	13
8	870528	610	104	1	3	H	4.0	12.0	0.0	0.00	H631	.	.	3
8	870528	610	104	1	3	H	4.0	12.0	0.0	0.00	S823	.	.	2
8	870528	610	104	1	3	H	4.0	12.0	0.0	0.00	H124	1	7	1
8	870528	610	104	1	3	H	4.0	12.0	0.0	0.00	S503	.	.	1
8	870528	615	104	2	3	H	4.0	12.0	0.0	0.00	H115	4	4	4
8	870528	615	104	2	3	H	4.0	12.0	0.0	0.00	S823	.	.	6
8	870528	615	104	2	3	H	4.0	12.0	0.0	0.00	H112	4	3	2
8	870528	620	104	3	3	H	4.0	12.0	0.0	0.00	H124	4	4	3
8	870528	620	104	3	3	H	4.0	12.0	0.0	0.00	S424	.	.	2
8	870528	620	104	3	3	H	4.0	12.0	0.0	0.00	H115	4	4	4
8	870528	620	104	3	3	H	4.0	12.0	0.0	0.00	H631	.	.	1
8	870528	620	104	3	3	H	4.0	12.0	0.0	0.00	H118	4	4	1
8	870528	630	105	1	3	H	4.0	12.4	0.3	0.00	H124	4	3	2
8	870528	630	105	1	3	H	4.0	12.4	0.3	0.00	H118	4	3	3
8	870528	630	105	1	3	H	4.0	12.4	0.3	0.00	S823	.	.	2
8	870528	630	105	1	3	H	4.0	12.4	0.3	0.00	S665	.	.	1
8	870528	635	105	2	3	H	4.0	12.4	0.3	0.00	H124	4	3	16
8	870528	635	105	2	3	H	4.0	12.4	0.3	0.00	S823	.	.	3
8	870528	635	105	2	3	H	4.0	12.4	0.3	0.00	S665	.	.	2
8	870528	635	105	2	3	H	4.0	12.4	0.3	0.00	S503	.	.	3
8	870528	635	105	2	3	H	4.0	12.4	0.3	0.00	S424	.	.	2
8	870528	635	105	2	3	H	4.0	12.4	0.3	0.00	H112	4	3	1
8	870528	640	105	3	3	H	4.0	12.4	0.3	0.00	H124	4	3	7
8	870528	640	105	3	3	H	4.0	12.4	0.3	0.00	S823	.	.	4
8	870528	640	105	3	3	H	4.0	12.4	0.3	0.00	S503	.	.	4
8	870528	640	105	3	3	H	4.0	12.4	0.3	0.00	S424	.	.	7
8	870528	640	105	3	3	H	4.0	12.4	0.3	0.00	H112	4	3	4
8	870528	640	105	3	3	H	4.0	12.4	0.3	0.00	H115	4	4	3
8	870528	640	105	3	3	H	4.0	12.4	0.3	0.00	H124	4	4	3
8	870528	1135	105	1	3	L	0.6	13.1	0.0	0.03	H124	4	4	5
8	870528	1135	105	1	3	L	0.6	13.1	0.0	0.03	H124	4	3	3
8	870528	1135	105	1	3	L	0.6	13.1	0.0	0.03	H115	4	4	6
8	870528	1135	105	1	3	L	0.6	13.1	0.0	0.03	H118	4	3	1
8	870528	1135	105	1	3	L	0.6	13.1	0.0	0.03	S424	.	.	21
8	870528	1135	105	1	3	L	0.6	13.1	0.0	0.03	H631	.	.	1
8	870528	1135	105	1	3	L	0.6	13.1	0.0	0.03	S823	.	.	59
8	870528	1135	105	1	3	L	0.6	13.1	0.0	0.03	S503	.	.	1

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TRIP	DATE	TIME	STN	SET	HAUL	TIDE	THGHT	TEMP	SAL	CURR	SPEC	GROUP	STAGE	CATCH
8	870528	1140	105	2	3	L	0.6	13.1	0.0	0.03	H124	4	4	1
8	870528	1140	105	2	3	L	0.6	13.1	0.0	0.03	H124	4	3	2
8	870528	1140	105	2	3	L	0.6	13.1	0.0	0.03	H115	4	4	9
8	870528	1140	105	2	3	L	0.6	13.1	0.0	0.03	H631	.	.	1
8	870528	1140	105	2	3	L	0.6	13.1	0.0	0.03	S823	.	.	54
8	870528	1150	105	3	3	L	0.6	13.1	0.0	0.03	H631	.	.	1
8	870528	1150	105	3	3	L	0.6	13.1	0.0	0.03	S823	.	.	46
8	870528	1200	104	1	3	L	0.6	13.1	0.0	0.30	S536	.	.	1
8	870528	1200	104	1	3	L	0.6	13.1	0.0	0.30	H115	4	3	2
8	870528	1200	104	1	3	L	0.6	13.1	0.0	0.30	H143	.	.	1
8	870528	1200	104	1	3	L	0.6	13.1	0.0	0.30	H124	4	4	30
8	870528	1200	104	1	3	L	0.6	13.1	0.0	0.30	H107	4	3	51
8	870528	1200	104	1	3	L	0.6	13.1	0.0	0.30	H115	4	4	11
8	870528	1200	104	1	3	L	0.6	13.1	0.0	0.30	S823	.	.	19
8	870528	1200	104	1	3	L	0.6	13.1	0.0	0.30	H631	.	.	2
8	870528	1200	104	1	3	L	0.6	13.1	0.0	0.30	S424	.	.	49
8	870528	1200	104	1	3	L	0.6	13.1	0.0	0.30	S487	.	.	1
8	870528	1200	104	1	3	L	0.6	13.1	0.0	0.30	S291	.	.	2
8	870528	1200	104	1	3	L	0.6	13.1	0.0	0.30	S503	.	.	3
8	870528	1200	104	1	3	L	0.6	13.1	0.0	0.30	S523	.	.	2
8	870528	1200	104	1	3	L	0.6	13.1	0.0	0.30	H118	4	3	1
8	870528	1210	104	2	3	L	0.6	13.1	0.0	0.30	H124	4	4	6
8	870528	1210	104	2	3	L	0.6	13.1	0.0	0.30	H107	4	3	23
8	870528	1210	104	2	3	L	0.6	13.1	0.0	0.30	H115	4	4	3
8	870528	1210	104	2	3	L	0.6	13.1	0.0	0.30	S823	.	.	29
8	870528	1210	104	2	3	L	0.6	13.1	0.0	0.30	H631	.	.	2
8	870528	1210	104	2	3	L	0.6	13.1	0.0	0.30	S424	.	.	10
8	870528	1210	104	2	3	L	0.6	13.1	0.0	0.30	S487	.	.	1
8	870528	1210	104	2	3	L	0.6	13.1	0.0	0.30	S503	.	.	3
8	870528	1210	104	2	3	L	0.6	13.1	0.0	0.30	H124	1	7	1
8	870528	1220	104	3	3	L	0.6	13.1	0.0	0.30	H118	4	4	1
8	870528	1220	104	3	3	L	0.6	13.1	0.0	0.30	H124	4	4	7
8	870528	1220	104	3	3	L	0.6	13.1	0.0	0.30	H107	4	3	48
8	870528	1220	104	3	3	L	0.6	13.1	0.0	0.30	H115	4	4	5
8	870528	1220	104	3	3	L	0.6	13.1	0.0	0.30	S823	.	.	12
8	870528	1220	104	3	3	L	0.6	13.1	0.0	0.30	H631	.	.	1
8	870528	1220	104	3	3	L	0.6	13.1	0.0	0.30	S424	.	.	14
8	870528	1220	104	3	3	L	0.6	13.1	0.0	0.30	S503	.	.	2
8	870528	1220	104	3	3	L	0.6	13.1	0.0	0.30	S523	.	.	1
8	870528	1220	104	3	3	L	0.6	13.1	0.0	0.30	H115	1	7	1
8	870528	1300	102	1	3	L	0.6	12.7	1.6	0.01	H107	4	3	56
8	870528	1300	102	1	3	L	0.6	12.7	1.6	0.01	H124	4	4	6
8	870528	1300	102	1	3	L	0.6	12.7	1.6	0.01	H115	4	4	3
8	870528	1300	102	1	3	L	0.6	12.7	1.6	0.01	H631	.	.	2
8	870528	1300	102	1	3	L	0.6	12.7	1.6	0.01	S424	.	.	10

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TRIP	DATE	TIME	STN	SET	HAUL	TIDE	THGHT	TEMP	SAL	CURR	SPEC	GROUP	STAGE	CATCH
8	870528	1300	102	1	3	L	0.6	12.7	1.6	0.01	S823	.	.	11
8	870528	1300	102	1	3	L	0.6	12.7	1.6	0.01	S503	.	.	3
8	870528	1300	102	1	3	L	0.6	12.7	1.6	0.01	H518	.	.	1
8	870528	1300	102	1	3	L	0.6	12.7	1.6	0.01	H112	4	3	2
8	870528	1300	102	1	3	L	0.6	12.7	1.6	0.01	S523	.	.	1
8	870528	1310	102	2	3	L	0.6	12.7	1.6	0.01	H107	4	3	1
8	870528	1310	102	2	3	L	0.6	12.7	1.6	0.01	S424	.	.	1
8	870528	1310	102	2	3	L	0.6	12.7	1.6	0.01	S823	.	.	4
8	870528	1320	102	3	3	L	0.6	12.7	1.6	0.01	S523	.	.	1
8	870528	1320	102	3	3	L	0.6	12.7	1.6	0.01	H124	4	4	2
8	870528	1320	102	3	3	L	0.6	12.7	1.6	0.01	H115	4	4	2
8	870528	1320	102	3	3	L	0.6	12.7	1.6	0.01	H631	.	.	3
8	870528	1320	102	3	3	L	0.6	12.7	1.6	0.01	S424	.	.	3
8	870528	1320	102	3	3	L	0.6	12.7	1.6	0.01	S823	.	.	6
8	870528	1320	102	3	3	L	0.6	12.7	1.6	0.01	H518	.	.	1
8	870528	1330	101	1	3	L	0.6	13.8	0.3	.	S424	.	.	81
8	870528	1330	101	1	3	L	0.6	13.8	0.3	.	H112	4	3	1
8	870528	1330	101	1	3	L	0.6	13.8	0.3	.	H124	4	3	7
8	870528	1330	101	1	3	L	0.6	13.8	0.3	.	H124	4	4	6
8	870528	1330	101	1	3	L	0.6	13.8	0.3	.	H631	.	.	2
8	870528	1330	101	1	3	L	0.6	13.8	0.3	.	H115	4	4	4
8	870528	1335	101	2	3	L	0.6	13.8	0.3	.	S424	.	.	5
8	870528	1335	101	2	3	L	0.6	13.8	0.3	.	H124	4	3	2
8	870528	1335	101	2	3	L	0.6	13.8	0.3	.	H124	4	4	3
8	870528	1335	101	2	3	L	0.6	13.8	0.3	.	H631	.	.	1
8	870528	1335	101	2	3	L	0.6	13.8	0.3	.	H518	.	.	2
8	870528	1345	101	3	3	L	0.6	13.8	0.3	.	S424	.	.	3
8	870528	1345	101	3	3	L	0.6	13.8	0.3	.	H124	4	3	2
8	870528	1345	101	3	3	L	0.6	13.8	0.3	.	H124	4	4	3
9	870610	910	105	1	3	L	0.3	.	.	.	S823	.	.	77
9	870610	910	105	1	3	L	0.3	.	.	.	S424	.	.	3
9	870610	910	105	1	3	L	0.3	.	.	.	H124	4	4	3
9	870610	910	105	1	3	L	0.3	.	.	.	S503	.	.	3
9	870610	910	105	1	3	L	0.3	.	.	.	H115	4	4	2
9	870610	910	105	1	3	L	0.3	.	.	.	H631	.	.	2
9	870610	910	105	1	3	L	0.3	.	.	.	S487	.	.	1
9	870610	910	105	1	3	L	0.3	.	.	.	S523	.	.	1
9	870610	910	105	1	3	L	0.3	.	.	.	H118	4	3	10
9	870610	920	105	2	3	L	0.3	.	.	.	S823	.	.	24
9	870610	920	105	2	3	L	0.3	.	.	.	S665	.	.	3
9	870610	920	105	2	3	L	0.3	.	.	.	S503	.	.	1
9	870610	920	105	2	3	L	0.3	.	.	.	H115	4	4	3
9	870610	920	105	2	3	L	0.3	.	.	.	H631	.	.	17
9	870610	920	105	2	3	L	0.3	.	.	.	S523	.	.	1
9	870610	930	105	3	3	L	0.3	.	.	.	S823	.	.	39

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TRIP	DATE	TIME	STN	SET	HAUL	TIDE	THGHT	TEMP	SAL	CURR	SPEC	GROUP	STAGE	CATCH
9	870610	930	105	3	3	L	0.3	.	.	.	S424	.	.	5
9	870610	930	105	3	3	L	0.3	.	.	.	S665	.	.	1
9	870610	930	105	3	3	L	0.3	.	.	.	H115	4	4	1
9	870610	930	105	3	3	L	0.3	.	.	.	H631	.	.	3
9	870610	930	105	3	3	L	0.3	.	.	.	S487	.	.	1
9	870610	1030	102	1	3	L	0.3	.	.	.	H124	4	3	5
9	870610	1030	102	1	3	L	0.3	.	.	.	H124	4	4	2
9	870610	1030	102	1	3	L	0.3	.	.	.	H115	4	4	4
9	870610	1030	102	1	3	L	0.3	.	.	.	S424	.	.	86
9	870610	1030	102	1	3	L	0.3	.	.	.	S503	.	.	15
9	870610	1030	102	1	3	L	0.3	.	.	.	S823	.	.	11
9	870610	1030	102	1	3	L	0.3	.	.	.	S523	.	.	3
9	870610	1030	102	1	3	L	0.3	.	.	.	H631	.	.	14
9	870610	1030	102	1	3	L	0.3	.	.	.	S487	.	.	3
9	870610	1040	102	2	3	L	0.3	.	.	.	H124	4	3	3
9	870610	1040	102	2	3	L	0.3	.	.	.	H124	4	4	5
9	870610	1040	102	2	3	L	0.3	.	.	.	H115	4	4	1
9	870610	1040	102	2	3	L	0.3	.	.	.	H118	4	3	25
9	870610	1040	102	2	3	L	0.3	.	.	.	H112	4	3	2
9	870610	1040	102	2	3	L	0.3	.	.	.	S424	.	.	96
9	870610	1040	102	2	3	L	0.3	.	.	.	S503	.	.	2
9	870610	1040	102	2	3	L	0.3	.	.	.	S823	.	.	9
9	870610	1040	102	2	3	L	0.3	.	.	.	H631	.	.	11
9	870610	1045	102	3	3	L	0.3	.	.	.	S424	.	.	14
9	870610	1045	102	3	3	L	0.3	.	.	.	S503	.	.	2
9	870610	1045	102	3	3	L	0.3	.	.	.	S665	.	.	1
9	870610	1045	102	3	3	L	0.3	.	.	.	S823	.	.	5
9	870610	1045	102	3	3	L	0.3	.	.	.	S523	.	.	1
9	870610	1045	102	3	3	L	0.3	.	.	.	H631	.	.	11
9	870610	1105	101	1	3	L	0.3	.	.	.	H124	4	3	7
9	870610	1105	101	1	3	L	0.3	.	.	.	S823	.	.	1
9	870610	1105	101	1	3	L	0.3	.	.	.	H631	.	.	7
9	870610	1105	101	1	3	L	0.3	.	.	.	S424	.	.	3
9	870610	1105	101	1	3	L	0.3	.	.	.	S487	.	.	1
9	870610	1105	101	1	3	L	0.3	.	.	.	S665	.	.	3
9	870610	1110	101	2	3	L	0.3	.	.	.	H124	4	4	1
9	870610	1110	101	2	3	L	0.3	.	.	.	S823	.	.	2
9	870610	1110	101	2	3	L	0.3	.	.	.	H631	.	.	5
9	870610	1110	101	2	3	L	0.3	.	.	.	S424	.	.	2
9	870610	1110	101	2	3	L	0.3	.	.	.	H518	.	.	1
9	870610	1110	101	2	3	L	0.3	.	.	.	S487	.	.	1
9	870610	1110	101	2	3	L	0.3	.	.	.	S503	.	.	1
9	870610	1115	101	3	3	L	0.3	.	.	.	H124	4	3	1
9	870610	1115	101	3	3	L	0.3	.	.	.	H631	.	.	2
9	870610	1115	101	3	3	L	0.3	.	.	.	S424	.	.	4

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TRIP	DATE	TIME	STN	SET	HAUL	TIDE	THGHT	TEMP	SAL	CURR	SPEC	GROUP	STAGE	CATCH
9	870610	1115	101	3	3	L	0.3	.	.	.	H518	.	.	1
9	870610	1615	101	1	3	H	4.5	.	.	.		.	.	0
9	870610	1620	101	2	3	H	4.5	.	.	.	H124	4	4	3
9	870610	1620	101	2	3	H	4.5	.	.	.	S503	.	.	2
9	870610	1625	101	3	3	H	4.5	.	.	.		.	.	0
9	870610	1630	102	1	3	H	4.5	.	.	.	H124	4	3	1
9	870610	1630	102	1	3	H	4.5	.	.	.	S424	.	.	6
9	870610	1630	102	1	3	H	4.5	.	.	.	S503	.	.	12
9	870610	1630	102	1	3	H	4.5	.	.	.	H118	4	3	14
9	870610	1630	102	1	3	H	4.5	.	.	.	H115	4	4	1
9	870610	1630	102	1	3	H	4.5	.	.	.	S665	.	.	1
9	870610	1635	102	2	3	H	4.5	.	.	.	H124	4	3	2
9	870610	1635	102	2	3	H	4.5	.	.	.	H124	4	4	2
9	870610	1635	102	2	3	H	4.5	.	.	.	S424	.	.	1
9	870610	1635	102	2	3	H	4.5	.	.	.	S503	.	.	3
9	870610	1635	102	2	3	H	4.5	.	.	.	H118	4	3	5
9	870610	1640	102	3	3	H	4.5	.	.	.	H124	4	4	5
9	870610	1640	102	3	3	H	4.5	.	.	.	S424	.	.	1
9	870610	1640	102	3	3	H	4.5	.	.	.	H118	4	3	6
9	870610	1640	102	3	3	H	4.5	.	.	.	S665	.	.	2
9	870610	1700	104	1	3	H	4.5	.	.	.	H118	4	3	4
9	870610	1700	104	1	3	H	4.5	.	.	.	S823	.	.	1
9	870610	1700	104	1	3	H	4.5	.	.	.	S503	.	.	1
9	870610	1705	104	2	3	H	4.5	.	.	.	H115	4	4	1
9	870610	1705	104	2	3	H	4.5	.	.	.	H118	4	3	4
9	870610	1705	104	2	3	H	4.5	.	.	.	S665	.	.	1
9	870610	1705	104	2	3	H	4.5	.	.	.	S823	.	.	1
9	870610	1705	104	2	3	H	4.5	.	.	.	S523	.	.	1
9	870610	1710	104	3	3	H	4.5	.	.	.	H124	4	4	2
9	870610	1710	104	3	3	H	4.5	.	.	.	S665	.	.	1
9	870610	1710	104	3	3	H	4.5	.	.	.	S823	.	.	5
9	870610	1725	105	1	3	H	4.5	.	.	.	H124	4	4	1
9	870610	1725	105	1	3	H	4.5	.	.	.	H118	4	3	4
9	870610	1730	105	2	3	H	4.5	.	.	.	H118	4	3	3
9	870610	1730	105	2	3	H	4.5	.	.	.	S503	.	.	1
9	870610	1730	105	2	3	H	4.5	.	.	.	S424	.	.	2
9	870610	1730	105	2	3	H	4.5	.	.	.	S665	.	.	1
9	870610	1730	105	2	3	H	4.5	.	.	.	S487	.	.	2
9	870610	1730	105	2	3	H	4.5	.	.	.	S823	.	.	1
9	870610	1735	105	3	3	H	4.5	.	.	.	H124	4	4	2
9	870610	1735	105	3	3	H	4.5	.	.	.	H118	4	3	1
10	870622	825	105	1	3	L	1.0	15.4	0.2	0.37	H124	4	4	2
10	870622	825	105	1	3	L	1.0	15.4	0.2	0.37	S424	.	.	16
10	870622	825	105	1	3	L	1.0	15.4	0.2	0.37	S823	.	.	78
10	870622	825	105	1	3	L	1.0	15.4	0.2	0.37	H631	.	.	25

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TRIP	DATE	TIME	STN	SET	HAUL	TIDE	THGHT	TEMP	SAL	CURR	SPEC	GROUP	STAGE	CATCH
10	870622	825	105	1	3	L	1.0	15.4	0.2	0.37	S487	.	.	2
10	870622	825	105	1	3	L	1.0	15.4	0.2	0.37	S523	.	.	5
10	870622	830	105	2	3	L	1.0	15.4	0.2	0.37	S424	.	.	6
10	870622	830	105	2	3	L	1.0	15.4	0.2	0.37	S823	.	.	29
10	870622	830	105	2	3	L	1.0	15.4	0.2	0.37	H631	.	.	20
10	870622	830	105	2	3	L	1.0	15.4	0.2	0.37	S503	.	.	1
10	870622	830	105	2	3	L	1.0	15.4	0.2	0.37	H143	.	.	1
10	870622	835	105	3	3	L	1.0	15.4	0.2	0.37	H118	4	3	3
10	870622	835	105	3	3	L	1.0	15.4	0.2	0.37	S424	.	.	1
10	870622	835	105	3	3	L	1.0	15.4	0.2	0.37	S823	.	.	25
10	870622	835	105	3	3	L	1.0	15.4	0.2	0.37	H631	.	.	7
10	870622	835	105	3	3	L	1.0	15.4	0.2	0.37	S503	.	.	1
10	870622	850	104	1	3	L	1.0	15.4	0.2	0.57	H115	4	4	1
10	870622	850	104	1	3	L	1.0	15.4	0.2	0.57	H124	4	3	4
10	870622	850	104	1	3	L	1.0	15.4	0.2	0.57	H112	4	3	8
10	870622	850	104	1	3	L	1.0	15.4	0.2	0.57	S424	.	.	2
10	870622	850	104	1	3	L	1.0	15.4	0.2	0.57	H631	.	.	19
10	870622	850	104	1	3	L	1.0	15.4	0.2	0.57	S665	.	.	4
10	870622	850	104	1	3	L	1.0	15.4	0.2	0.57	S503	.	.	1
10	870622	850	104	1	3	L	1.0	15.4	0.2	0.57	S823	.	.	43
10	870622	850	104	1	3	L	1.0	15.4	0.2	0.57	H118	4	3	49
10	870622	850	104	1	3	L	1.0	15.4	0.2	0.57	S523	.	.	2
10	870622	850	104	1	3	L	1.0	15.4	0.2	0.57	H134	4	7	2
10	870622	850	104	1	3	L	1.0	15.4	0.2	0.57	H128	4	7	1
10	870622	850	104	1	3	L	1.0	15.4	0.2	0.57	S291	.	.	1
10	870622	850	104	1	3	L	1.0	15.4	0.2	0.57	S487	.	.	2
10	870622	900	104	2	3	L	1.0	15.4	0.2	0.57	H124	4	3	3
10	870622	900	104	2	3	L	1.0	15.4	0.2	0.57	S424	.	.	2
10	870622	900	104	2	3	L	1.0	15.4	0.2	0.57	H631	.	.	8
10	870622	900	104	2	3	L	1.0	15.4	0.2	0.57	S665	.	.	3
10	870622	900	104	2	3	L	1.0	15.4	0.2	0.57	S823	.	.	16
10	870622	900	104	2	3	L	1.0	15.4	0.2	0.57	H118	4	3	44
10	870622	900	104	2	3	L	1.0	15.4	0.2	0.57	S487	.	.	1
10	870622	905	104	3	3	L	1.0	15.4	0.2	0.57	H124	4	3	4
10	870622	905	104	3	3	L	1.0	15.4	0.2	0.57	H112	4	3	4
10	870622	905	104	3	3	L	1.0	15.4	0.2	0.57	S424	.	.	1
10	870622	905	104	3	3	L	1.0	15.4	0.2	0.57	H631	.	.	3
10	870622	905	104	3	3	L	1.0	15.4	0.2	0.57	S665	.	.	3
10	870622	905	104	3	3	L	1.0	15.4	0.2	0.57	S503	.	.	2
10	870622	905	104	3	3	L	1.0	15.4	0.2	0.57	S823	.	.	16
10	870622	905	104	3	3	L	1.0	15.4	0.2	0.57	H118	4	3	1
10	870622	940	102	1	3	L	1.0	16.3	0.0	0.00	S424	.	.	9
10	870622	940	102	1	3	L	1.0	16.3	0.0	0.00	H631	.	.	1
10	870622	940	102	1	3	L	1.0	16.3	0.0	0.00	H124	4	4	5
10	870622	940	102	1	3	L	1.0	16.3	0.0	0.00	H124	4	3	3

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TRIP	DATE	TIME	STN	SET	HAUL	TIDE	THGHT	TEMP	SAL	CURR	SPEC	GROUP	STAGE	CATCH
10	870622	940	102	1	3	L	1.0	16.3	0.0	0.00	H118	4	3	9
10	870622	940	102	1	3	L	1.0	16.3	0.0	0.00	S503	.	.	9
10	870622	945	102	2	3	L	1.0	16.3	0.0	0.00	S424	.	.	6
10	870622	945	102	2	3	L	1.0	16.3	0.0	0.00	S823	.	.	7
10	870622	945	102	2	3	L	1.0	16.3	0.0	0.00	H631	.	.	13
10	870622	945	102	2	3	L	1.0	16.3	0.0	0.00	H118	4	3	1
10	870622	945	102	2	3	L	1.0	16.3	0.0	0.00	S503	.	.	5
10	870622	945	102	2	3	L	1.0	16.3	0.0	0.00	S523	.	.	1
10	870622	945	102	2	3	L	1.0	16.3	0.0	0.00	S487	.	.	3
10	870622	950	102	3	3	L	1.0	16.3	0.0	0.00	S424	.	.	4
10	870622	950	102	3	3	L	1.0	16.3	0.0	0.00	S823	.	.	5
10	870622	950	102	3	3	L	1.0	16.3	0.0	0.00	H631	.	.	14
10	870622	950	102	3	3	L	1.0	16.3	0.0	0.00	H124	4	4	2
10	870622	950	102	3	3	L	1.0	16.3	0.0	0.00	H124	4	3	2
10	870622	950	102	3	3	L	1.0	16.3	0.0	0.00	H118	4	3	2
10	870622	950	102	3	3	L	1.0	16.3	0.0	0.00	S503	.	.	2
10	870622	950	102	3	3	L	1.0	16.3	0.0	0.00	S487	.	.	1
10	870622	1015	101	1	3	L	1.0	16.3	0.0	0.37	S424	.	.	29
10	870622	1015	101	1	3	L	1.0	16.3	0.0	0.37	S823	.	.	6
10	870622	1015	101	1	3	L	1.0	16.3	0.0	0.37	S665	.	.	8
10	870622	1015	101	1	3	L	1.0	16.3	0.0	0.37	H631	.	.	18
10	870622	1015	101	1	3	L	1.0	16.3	0.0	0.37	S523	.	.	2
10	870622	1015	101	1	3	L	1.0	16.3	0.0	0.37	H124	4	4	6
10	870622	1015	101	1	3	L	1.0	16.3	0.0	0.37	H518	.	.	1
10	870622	1015	101	1	3	L	1.0	16.3	0.0	0.37	S503	.	.	18
10	870622	1015	101	1	3	L	1.0	16.3	0.0	0.37	H143	.	.	1
10	870622	1015	101	1	3	L	1.0	16.3	0.0	0.37	H124	4	3	1
10	870622	1020	101	2	3	L	1.0	16.3	0.0	0.37	S424	.	.	4
10	870622	1020	101	2	3	L	1.0	16.3	0.0	0.37	H631	.	.	2
10	870622	1020	101	2	3	L	1.0	16.3	0.0	0.37	H124	4	4	1
10	870622	1020	101	2	3	L	1.0	16.3	0.0	0.37	H118	4	3	5
10	870622	1025	101	3	3	L	1.0	16.3	0.0	0.37	S823	.	.	2
10	870622	1025	101	3	3	L	1.0	16.3	0.0	0.37	S665	.	.	1
10	870622	1025	101	3	3	L	1.0	16.3	0.0	0.37	H631	.	.	4
10	870622	1025	101	3	3	L	1.0	16.3	0.0	0.37	H124	4	4	1
10	870622	1515	101	1	3	H	4.2	16.6	0.0	0.00	S665	.	.	4
10	870622	1520	101	2	3	H	4.2	16.6	0.0	0.00	S665	.	.	1
10	870622	1520	101	2	3	H	4.2	16.6	0.0	0.00	S424	.	.	2
10	870622	1520	101	2	3	H	4.2	16.6	0.0	0.00	H631	.	.	3
10	870622	1520	101	2	3	H	4.2	16.6	0.0	0.00	S823	.	.	4
10	870622	1525	101	3	3	H	4.2	16.6	0.0	0.00	S665	.	.	1
10	870622	1525	101	3	3	H	4.2	16.6	0.0	0.00	S424	.	.	3
10	870622	1525	101	3	3	H	4.2	16.6	0.0	0.00	H124	4	4	1
10	870622	1525	101	3	3	H	4.2	16.6	0.0	0.00	H118	4	3	1
10	870622	1545	102	1	3	H	4.2	17.7	0.1	0.00	S424	.	.	2

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TRIP	DATE	TIME	STN	SET	HAUL	TIDE	THGHT	TEMP	SAL	CURR	SPEC	GROUP	STAGE	CATCH
10	870622	1545	102	1	3	H	4.2	17.7	0.1	0.00	S665	.	.	7
10	870622	1545	102	1	3	H	4.2	17.7	0.1	0.00	S503	.	.	5
10	870622	1545	102	1	3	H	4.2	17.7	0.1	0.00	H124	4	4	1
10	870622	1545	102	1	3	H	4.2	17.7	0.1	0.00	H118	4	3	10
10	870622	1545	102	1	3	H	4.2	17.7	0.1	0.00	S523	.	.	1
10	870622	1550	102	2	3	H	4.2	17.7	0.1	0.00	S424	.	.	3
10	870622	1550	102	2	3	H	4.2	17.7	0.1	0.00	S665	.	.	7
10	870622	1550	102	2	3	H	4.2	17.7	0.1	0.00	H124	4	3	2
10	870622	1555	102	3	3	H	4.2	17.7	0.1	0.00	S424	.	.	2
10	870622	1555	102	3	3	H	4.2	17.7	0.1	0.00	S665	.	.	2
10	870622	1555	102	3	3	H	4.2	17.7	0.1	0.00	S503	.	.	1
10	870622	1615	104	1	3	H	4.2	15.5	0.0	0.04	S424	.	.	1
10	870622	1615	104	1	3	H	4.2	15.5	0.0	0.04	S823	.	.	1
10	870622	1615	104	1	3	H	4.2	15.5	0.0	0.04	H118	4	3	7
10	870622	1620	104	2	3	H	4.2	15.5	0.0	0.04	S823	.	.	4
10	870622	1620	104	2	3	H	4.2	15.5	0.0	0.04	H118	4	3	1
10	870622	1620	104	2	3	H	4.2	15.5	0.0	0.04	H631	.	.	7
10	870622	1620	104	2	3	H	4.2	15.5	0.0	0.04	S665	.	.	1
10	870622	1625	104	3	3	H	4.2	15.5	0.0	0.04	S424	.	.	2
10	870622	1625	104	3	3	H	4.2	15.5	0.0	0.04	S823	.	.	2
10	870622	1625	104	3	3	H	4.2	15.5	0.0	0.04	H631	.	.	1
10	870622	1625	104	3	3	H	4.2	15.5	0.0	0.04	S665	.	.	2
10	870622	1635	105	1	3	H	4.2	15.7	0.0	0.16	S424	.	.	1
10	870622	1640	105	2	3	H	4.2	15.7	0.0	0.16	S487	.	.	1
10	870622	1640	105	2	3	H	4.2	15.7	0.0	0.16	H118	4	3	7
10	870622	1640	105	2	3	H	4.2	15.7	0.0	0.16	S503	.	.	1
10	870622	1650	105	3	3	H	4.2	15.7	0.0	0.16	S424	.	.	1
10	870622	1650	105	3	3	H	4.2	15.7	0.0	0.16	H118	4	3	8
10	870622	1650	105	3	3	H	4.2	15.7	0.0	0.16	H124	4	4	3
10	870622	1650	105	3	3	H	4.2	15.7	0.0	0.16	S665	.	.	1
11	870707	815	101	1	3	L	0.9	15.9	0.0	0.30	S665	.	.	2
11	870707	815	101	1	3	L	0.9	15.9	0.0	0.30	S823	.	.	3
11	870707	815	101	1	3	L	0.9	15.9	0.0	0.30	H631	.	.	12
11	870707	815	101	1	3	L	0.9	15.9	0.0	0.30	S424	.	.	4
11	870707	815	101	1	3	L	0.9	15.9	0.0	0.30	H518	.	.	1
11	870707	820	101	2	3	L	0.9	15.9	0.0	0.30	S665	.	.	3
11	870707	820	101	2	3	L	0.9	15.9	0.0	0.30	S823	.	.	2
11	870707	820	101	2	3	L	0.9	15.9	0.0	0.30	H631	.	.	5
11	870707	820	101	2	3	L	0.9	15.9	0.0	0.30	S424	.	.	1
11	870707	820	101	2	3	L	0.9	15.9	0.0	0.30	H124	4	3	2
11	870707	820	101	2	3	L	0.9	15.9	0.0	0.30	H136	.	.	1
11	870707	820	101	2	3	L	0.9	15.9	0.0	0.30	H118	4	3	5
11	870707	825	101	3	3	L	0.9	15.9	0.0	0.30	S665	.	.	2
11	870707	825	101	3	3	L	0.9	15.9	0.0	0.30	H631	.	.	3
11	870707	825	101	3	3	L	0.9	15.9	0.0	0.30	H118	4	3	1

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11	870707	855	102	1	3	L	0.9	16.6	0.3	0.00	S823	.	.	3
11	870707	855	102	1	3	L	0.9	16.6	0.3	0.00	S424	.	.	3
11	870707	855	102	1	3	L	0.9	16.6	0.3	0.00	H631	.	.	4
11	870707	855	102	1	3	L	0.9	16.6	0.3	0.00	H124	4	3	2
11	870707	855	102	1	3	L	0.9	16.6	0.3	0.00	H124	4	4	1
11	870707	855	102	1	3	L	0.9	16.6	0.3	0.00	H118	4	3	1
11	870707	855	102	1	3	L	0.9	16.6	0.3	0.00	S487	.	.	4
11	870707	855	102	1	3	L	0.9	16.6	0.3	0.00	S523	.	.	1
11	870707	900	102	2	3	L	0.9	16.6	0.3	0.00	S823	.	.	7
11	870707	900	102	2	3	L	0.9	16.6	0.3	0.00	S424	.	.	3
11	870707	900	102	2	3	L	0.9	16.6	0.3	0.00	H631	.	.	15
11	870707	900	102	2	3	L	0.9	16.6	0.3	0.00	H124	4	3	1
11	870707	900	102	2	3	L	0.9	16.6	0.3	0.00	H124	4	4	1
11	870707	900	102	2	3	L	0.9	16.6	0.3	0.00	S523	.	.	1
11	870707	905	102	3	3	L	0.9	16.6	0.3	0.00	S823	.	.	8
11	870707	905	102	3	3	L	0.9	16.6	0.3	0.00	S424	.	.	2
11	870707	905	102	3	3	L	0.9	16.6	0.3	0.00	H631	.	.	9
11	870707	905	102	3	3	L	0.9	16.6	0.3	0.00	S487	.	.	5
11	870707	905	102	3	3	L	0.9	16.6	0.3	0.00	S523	.	.	1
11	870707	1000	104	1	3	L	0.9	15.5	0.0	0.41	S424	.	.	4
11	870707	1000	104	1	3	L	0.9	15.5	0.0	0.41	S823	.	.	20
11	870707	1000	104	1	3	L	0.9	15.5	0.0	0.41	S665	.	.	14
11	870707	1000	104	1	3	L	0.9	15.5	0.0	0.41	H143	.	.	1
11	870707	1000	104	1	3	L	0.9	15.5	0.0	0.41	H631	.	.	34
11	870707	1000	104	1	3	L	0.9	15.5	0.0	0.41	H118	4	3	41
11	870707	1000	104	1	3	L	0.9	15.5	0.0	0.41	S503	.	.	2
11	870707	1005	104	2	3	L	0.9	15.5	0.0	0.41	S823	.	.	8
11	870707	1005	104	2	3	L	0.9	15.5	0.0	0.41	H631	.	.	13
11	870707	1005	104	2	3	L	0.9	15.5	0.0	0.41	H118	4	3	2
11	870707	1005	104	2	3	L	0.9	15.5	0.0	0.41	S503	.	.	2
11	870707	1005	104	2	3	L	0.9	15.5	0.0	0.41	S487	.	.	1
11	870707	1010	104	3	3	L	0.9	15.5	0.0	0.41	S424	.	.	1
11	870707	1010	104	3	3	L	0.9	15.5	0.0	0.41	S823	.	.	4
11	870707	1010	104	3	3	L	0.9	15.5	0.0	0.41	S665	.	.	1
11	870707	1010	104	3	3	L	0.9	15.5	0.0	0.41	H631	.	.	3
11	870707	1010	104	3	3	L	0.9	15.5	0.0	0.41	S503	.	.	2
11	870707	1010	104	3	3	L	0.9	15.5	0.0	0.41	S487	.	.	1
11	870707	1500	101	1	2	H	4.1	18.4	0.0	0.00	H631	.	.	1
11	870707	1500	101	1	2	H	4.1	18.4	0.0	0.00	S424	.	.	1
11	870707	1505	101	2	2	H	4.1	18.4	0.0	0.00		.	.	0
11	870707	1553	102	1	3	H	4.1	17.4	0.3	0.05	S424	.	.	5
11	870707	1553	102	1	3	H	4.1	17.4	0.3	0.05	H118	4	3	16
11	870707	1553	102	1	3	H	4.1	17.4	0.3	0.05	S487	.	.	1
11	870707	1553	102	1	3	H	4.1	17.4	0.3	0.05	S665	.	.	2
11	870707	1600	102	2	3	H	4.1	17.4	0.3	0.05	H118	4	3	1

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TRIP	DATE	TIME	STN	SET	HAUL	TIDE	THGHT	TEMP	SAL	CURR	SPEC	GROUP	STAGE	CATCH
11	870707	1600	102	2	3	H	4.1	17.4	0.3	0.05	S665	.	.	1
11	870707	1600	102	2	3	H	4.1	17.4	0.3	0.05	H124	4	7	2
11	870707	1607	102	3	3	H	4.1	17.4	0.3	0.05	S424	.	.	2
11	870707	1607	102	3	3	H	4.1	17.4	0.3	0.05	H118	4	3	4
11	870707	1607	102	3	3	H	4.1	17.4	0.3	0.05	S665	.	.	2
11	870707	1607	102	3	3	H	4.1	17.4	0.3	0.05	H143	.	.	3
11	870707	1607	102	3	3	H	4.1	17.4	0.3	0.05	S823	.	.	1
11	870707	1630	104	1	3	H	4.1	16.4	0.2	0.18	H631	.	.	1
11	870707	1630	104	1	3	H	4.1	16.4	0.2	0.18	H124	4	7	2
11	870707	1630	104	1	3	H	4.1	16.4	0.2	0.18	H118	4	7	3
11	870707	1630	104	1	3	H	4.1	16.4	0.2	0.18	S523	.	.	1
11	870707	1630	104	1	3	H	4.1	16.4	0.2	0.18	S424	.	.	3
11	870707	1630	104	1	3	H	4.1	16.4	0.2	0.18	S823	.	.	1
11	870707	1636	104	2	3	H	4.1	16.4	0.2	0.18	H631	.	.	2
11	870707	1636	104	2	3	H	4.1	16.4	0.2	0.18	H118	4	7	4
11	870707	1636	104	2	3	H	4.1	16.4	0.2	0.18	S523	.	.	1
11	870707	1636	104	2	3	H	4.1	16.4	0.2	0.18	S823	.	.	8
11	870707	1636	104	2	3	H	4.1	16.4	0.2	0.18	S665	.	.	3
11	870707	1642	104	3	3	H	4.1	16.4	0.2	0.18	H631	.	.	3
11	870707	1642	104	3	3	H	4.1	16.4	0.2	0.18	H118	4	7	2
11	870707	1642	104	3	3	H	4.1	16.4	0.2	0.18	S424	.	.	2
11	870707	1642	104	3	3	H	4.1	16.4	0.2	0.18	S823	.	.	9
11	870707	1658	105	1	3	H	4.1	16.7	0.0	0.18	H118	4	7	5
11	870707	1658	105	1	3	H	4.1	16.7	0.0	0.18	S823	.	.	1
11	870707	1658	105	1	3	H	4.1	16.7	0.0	0.18	S424	.	.	1
11	870707	1705	105	2	3	H	4.1	16.7	0.0	0.18	H118	4	7	1
11	870707	1705	105	2	3	H	4.1	16.7	0.0	0.18	H124	4	7	1
11	870707	1710	105	3	3	H	4.1	16.7	0.0	0.18	H118	4	7	1
11	870707	1710	105	3	3	H	4.1	16.7	0.0	0.18	S823	.	.	9
11	870707	1710	105	3	3	H	4.1	16.7	0.0	0.18	S424	.	.	1
12	870722	755	104	1	3	L	0.9	18.0	0.0	0.59	S424	.	.	13
12	870722	755	104	1	3	L	0.9	18.0	0.0	0.59	S665	.	.	6
12	870722	755	104	1	3	L	0.9	18.0	0.0	0.59	S823	.	.	25
12	870722	755	104	1	3	L	0.9	18.0	0.0	0.59	H631	.	.	33
12	870722	755	104	1	3	L	0.9	18.0	0.0	0.59	S503	.	.	4
12	870722	755	104	1	3	L	0.9	18.0	0.0	0.59	S523	.	.	1
12	870722	755	104	1	3	L	0.9	18.0	0.0	0.59	H118	4	3	4
12	870722	755	104	1	3	L	0.9	18.0	0.0	0.59	H124	4	3	1
12	870722	755	104	1	3	L	0.9	18.0	0.0	0.59	H115	4	6	1
12	870722	800	104	2	3	L	0.9	18.0	0.0	0.59	S487	.	.	2
12	870722	800	104	2	3	L	0.9	18.0	0.0	0.59	S424	.	.	6
12	870722	800	104	2	3	L	0.9	18.0	0.0	0.59	S665	.	.	12
12	870722	800	104	2	3	L	0.9	18.0	0.0	0.59	S823	.	.	24
12	870722	800	104	2	3	L	0.9	18.0	0.0	0.59	H631	.	.	14
12	870722	800	104	2	3	L	0.9	18.0	0.0	0.59	S503	.	.	3

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TRIP	DATE	TIME	STN	SET	HAUL	TIDE	THGHT	TEMP	SAL	CURR	SPEC	GROUP	STAGE	CATCH
12	870722	800	104	2	3	L	0.9	18.0	0.0	0.59	S523	.	.	1
12	870722	800	104	2	3	L	0.9	18.0	0.0	0.59	H118	4	3	3
12	870722	805	104	3	3	L	0.9	18.0	0.0	0.59	S487	.	.	1
12	870722	805	104	3	3	L	0.9	18.0	0.0	0.59	S424	.	.	4
12	870722	805	104	3	3	L	0.9	18.0	0.0	0.59	S665	.	.	1
12	870722	805	104	3	3	L	0.9	18.0	0.0	0.59	S823	.	.	12
12	870722	805	104	3	3	L	0.9	18.0	0.0	0.59	H631	.	.	3
12	870722	805	104	3	3	L	0.9	18.0	0.0	0.59	S503	.	.	3
12	870722	845	105	1	3	L	0.9	18.0	0.0	0.57	S544	.	.	3
12	870722	845	105	1	3	L	0.9	18.0	0.0	0.57	S487	.	.	8
12	870722	845	105	1	3	L	0.9	18.0	0.0	0.57	S665	.	.	3
12	870722	845	105	1	3	L	0.9	18.0	0.0	0.57	S424	.	.	38
12	870722	845	105	1	3	L	0.9	18.0	0.0	0.57	H631	.	.	18
12	870722	845	105	1	3	L	0.9	18.0	0.0	0.57	S823	.	.	67
12	870722	845	105	1	3	L	0.9	18.0	0.0	0.57	S503	.	.	1
12	870722	850	105	2	3	L	0.9	18.0	0.0	0.57	S544	.	.	1
12	870722	850	105	2	3	L	0.9	18.0	0.0	0.57	S424	.	.	11
12	870722	850	105	2	3	L	0.9	18.0	0.0	0.57	H631	.	.	9
12	870722	850	105	2	3	L	0.9	18.0	0.0	0.57	S823	.	.	72
12	870722	850	105	2	3	L	0.9	18.0	0.0	0.57	H124	4	3	1
12	870722	855	105	3	3	L	0.9	18.0	0.0	0.57	H631	.	.	3
12	870722	855	105	3	3	L	0.9	18.0	0.0	0.57	S823	.	.	9
12	870722	955	102	1	3	L	0.9	18.8	0.0	0.05	S523	.	.	1
12	870722	955	102	1	3	L	0.9	18.8	0.0	0.05	S424	.	.	7
12	870722	955	102	1	3	L	0.9	18.8	0.0	0.05	S823	.	.	3
12	870722	955	102	1	3	L	0.9	18.8	0.0	0.05	H631	.	.	10
12	870722	955	102	1	3	L	0.9	18.8	0.0	0.05	S487	.	.	4
12	870722	955	102	1	3	L	0.9	18.8	0.0	0.05	S503	.	.	1
12	870722	1000	102	2	3	L	0.9	18.8	0.0	0.05	S424	.	.	2
12	870722	1000	102	2	3	L	0.9	18.8	0.0	0.05	S823	.	.	1
12	870722	1000	102	2	3	L	0.9	18.8	0.0	0.05	H631	.	.	12
12	870722	1000	102	2	3	L	0.9	18.8	0.0	0.05	S487	.	.	2
12	870722	1000	102	2	3	L	0.9	18.8	0.0	0.05	S503	.	.	2
12	870722	1000	102	2	3	L	0.9	18.8	0.0	0.05	H124	4	3	1
12	870722	1005	102	3	3	L	0.9	18.8	0.0	0.05	S424	.	.	5
12	870722	1005	102	3	3	L	0.9	18.8	0.0	0.05	S823	.	.	4
12	870722	1005	102	3	3	L	0.9	18.8	0.0	0.05	H631	.	.	8
12	870722	1005	102	3	3	L	0.9	18.8	0.0	0.05	S487	.	.	2
12	870722	1005	102	3	3	L	0.9	18.8	0.0	0.05	H107	4	3	8
12	870722	1030	101	1	3	L	0.9	18.5	0.0	0.18	S523	.	.	1
12	870722	1030	101	1	3	L	0.9	18.5	0.0	0.18	H518	.	.	1
12	870722	1030	101	1	3	L	0.9	18.5	0.0	0.18	S424	.	.	1
12	870722	1030	101	1	3	L	0.9	18.5	0.0	0.18	H631	.	.	4
12	870722	1030	101	1	3	L	0.9	18.5	0.0	0.18	H124	4	3	1
12	870722	1035	101	2	3	L	0.9	18.5	0.0	0.18	H631	.	.	1

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TRIP	DATE	TIME	STN	SET	HAUL	TIDE	THGHT	TEMP	SAL	CURR	SPEC	GROUP	STAGE	CATCH
12	870722	1040	101	3	3	L	0.9	18.5	0.0	0.18	S424	.	.	2
12	870722	1040	101	3	3	L	0.9	18.5	0.0	0.18	H631	.	.	1
12	870722	1040	101	3	3	L	0.9	18.5	0.0	0.18	S665	.	.	1
12	870722	1550	105	1	3	H	4.5	18.3	2.1	0.05	S823	.	.	2
12	870722	1550	105	1	3	H	4.5	18.3	2.1	0.05	S665	.	.	25
12	870722	1610	105	2	3	H	4.5	18.3	2.1	0.05	S823	.	.	3
12	870722	1610	105	2	3	H	4.5	18.3	2.1	0.05	S665	.	.	20
12	870722	1610	105	2	3	H	4.5	18.3	2.1	0.05	S424	.	.	6
12	870722	1615	105	3	3	H	4.5	18.3	2.1	0.05	S665	.	.	15
12	870722	1615	105	3	3	H	4.5	18.3	2.1	0.05	S424	.	.	3
12	870722	1615	105	3	3	H	4.5	18.3	2.1	0.05	S487	.	.	1
12	870722	1615	105	3	3	H	4.5	18.3	2.1	0.05	S523	.	.	2
12	870722	1615	105	3	3	H	4.5	18.3	2.1	0.05	S999	.	.	2
12	870722	1615	105	3	3	H	4.5	18.3	2.1	0.05	H118	4	3	1
12	870722	1615	105	3	3	H	4.5	18.3	2.1	0.05	H124	4	4	2
12	870722	1633	104	1	3	H	4.5	18.3	2.1	0.05	S424	.	.	9
12	870722	1633	104	1	3	H	4.5	18.3	2.1	0.05	S665	.	.	15
12	870722	1633	104	1	3	H	4.5	18.3	2.1	0.05	H118	4	3	3
12	870722	1633	104	1	3	H	4.5	18.3	2.1	0.05	S999	.	.	2
12	870722	1641	104	2	3	H	4.5	18.3	2.1	0.05	S665	.	.	5
12	870722	1641	104	2	3	H	4.5	18.3	2.1	0.05	H118	4	3	5
12	870722	1641	104	2	3	H	4.5	18.3	2.1	0.05	H631	.	.	1
12	870722	1647	104	3	3	H	4.5	18.3	2.1	0.05	S424	.	.	2
12	870722	1647	104	3	3	H	4.5	18.3	2.1	0.05	S665	.	.	17
12	870722	1647	104	3	3	H	4.5	18.3	2.1	0.05	H118	4	3	2
12	870722	1721	102	1	3	H	4.5	18.7	2.3	0.15	H115	4	7	1
12	870722	1721	102	1	3	H	4.5	18.7	2.3	0.15	S665	.	.	45
12	870722	1721	102	1	3	H	4.5	18.7	2.3	0.15	H096	.	.	16
12	870722	1721	102	1	3	H	4.5	18.7	2.3	0.15	H143	.	.	8
12	870722	1730	102	2	3	H	4.5	18.7	2.3	0.15	H096	.	.	1
12	870722	1730	102	2	3	H	4.5	18.7	2.3	0.15	H143	.	.	1
12	870722	1730	102	2	3	H	4.5	18.7	2.3	0.15	S487	.	.	2
12	870722	1730	102	2	3	H	4.5	18.7	2.3	0.15	H118	4	7	20
12	870722	1747	102	3	3	H	4.5	18.7	2.3	0.15	S665	.	.	11
12	870722	1747	102	3	3	H	4.5	18.7	2.3	0.15	H096	.	.	3
12	870722	1747	102	3	3	H	4.5	18.7	2.3	0.15	H143	.	.	61
12	870722	1747	102	3	3	H	4.5	18.7	2.3	0.15	S487	.	.	1
12	870722	1820	101	1	3	H	4.5	18.3	2.0	0.00	S424	.	.	1
12	870722	1820	101	1	3	H	4.5	18.3	2.0	0.00	S665	.	.	1
12	870722	1825	101	2	3	H	4.5	18.3	2.0	0.00		.	.	0
12	870722	1830	101	3	3	H	4.5	18.3	2.0	0.00	S665	.	.	5
12	870722	1830	101	3	3	H	4.5	18.3	2.0	0.00	H136	.	.	2
13	870818	611	101	1	3	L	1.3	17.4	0.6	0.27	S424	.	.	38
13	870818	611	101	1	3	L	1.3	17.4	0.6	0.27	H631	.	.	72
13	870818	611	101	1	3	L	1.3	17.4	0.6	0.27	S487	.	.	1

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TRIP	DATE	TIME	STN	SET	HAUL	TIDE	THGHT	TEMP	SAL	CURR	SPEC	GROUP	STAGE	CATCH
13	870818	611	101	1	3	L	1.3	17.4	0.6	0.27	S291	.	.	1
13	870818	611	101	1	3	L	1.3	17.4	0.6	0.27	H518	.	.	3
13	870818	611	101	1	3	L	1.3	17.4	0.6	0.27	S999	.	.	1
13	870818	611	101	1	3	L	1.3	17.4	0.6	0.27	H304	.	.	1
13	870818	629	101	2	3	L	1.3	17.4	0.6	0.27	S424	.	.	3
13	870818	629	101	2	3	L	1.3	17.4	0.6	0.27	H631	.	.	7
13	870818	629	101	2	3	L	1.3	17.4	0.6	0.27	S999	.	.	1
13	870818	640	101	3	3	L	1.3	17.4	0.6	0.27	S424	.	.	1
13	870818	640	101	3	3	L	1.3	17.4	0.6	0.27	H631	.	.	15
13	870818	640	101	3	3	L	1.3	17.4	0.6	0.27	S823	.	.	2
13	870818	640	101	3	3	L	1.3	17.4	0.6	0.27	H518	.	.	1
13	870818	640	101	3	3	L	1.3	17.4	0.6	0.27	H304	.	.	1
13	870818	640	101	3	3	L	1.3	17.4	0.6	0.27	S665	.	.	2
13	870818	640	101	3	3	L	1.3	17.4	0.6	0.27	H143	.	.	1
13	870818	640	101	3	3	L	1.3	17.4	0.6	0.27	H128	4	6	1
13	870818	700	102	1	3	L	1.3	16.8	0.9	0.00	S665	.	.	3
13	870818	700	102	1	3	L	1.3	16.8	0.9	0.00	S494	.	.	1
13	870818	700	102	1	3	L	1.3	16.8	0.9	0.00	H631	.	.	52
13	870818	700	102	1	3	L	1.3	16.8	0.9	0.00	S823	.	.	90
13	870818	700	102	1	3	L	1.3	16.8	0.9	0.00	H127	4	4	1
13	870818	700	102	1	3	L	1.3	16.8	0.9	0.00	H124	4	3	1
13	870818	700	102	1	3	L	1.3	16.8	0.9	0.00	S487	.	.	5
13	870818	700	102	1	3	L	1.3	16.8	0.9	0.00	H118	4	4	1
13	870818	712	102	2	3	L	1.3	16.8	0.9	0.00	H136	.	.	4
13	870818	712	102	2	3	L	1.3	16.8	0.9	0.00	S665	.	.	5
13	870818	712	102	2	3	L	1.3	16.8	0.9	0.00	S494	.	.	1
13	870818	712	102	2	3	L	1.3	16.8	0.9	0.00	H631	.	.	2
13	870818	725	102	3	3	L	1.3	16.8	0.9	0.00	H136	.	.	1
13	870818	725	102	3	3	L	1.3	16.8	0.9	0.00	S665	.	.	1
13	870818	725	102	3	3	L	1.3	16.8	0.9	0.00	H631	.	.	13
13	870818	725	102	3	3	L	1.3	16.8	0.9	0.00	S823	.	.	13
13	870818	725	102	3	3	L	1.3	16.8	0.9	0.00	S487	.	.	3
13	870818	725	102	3	3	L	1.3	16.8	0.9	0.00	S536	.	.	1
13	870818	725	102	3	3	L	1.3	16.8	0.9	0.00	H304	.	.	2
13	870818	725	102	3	3	L	1.3	16.8	0.9	0.00	S424	.	.	2
13	870818	725	102	3	3	L	1.3	16.8	0.9	0.00	S999	.	.	1
13	870818	725	102	3	3	L	1.3	16.8	0.9	0.00	H518	.	.	1
13	870818	745	104	1	3	L	1.3	17.1	0.5	0.29	S544	.	.	3
13	870818	745	104	1	3	L	1.3	17.1	0.5	0.29	S823	.	.	42
13	870818	745	104	1	3	L	1.3	17.1	0.5	0.29	S665	.	.	20
13	870818	745	104	1	3	L	1.3	17.1	0.5	0.29	S424	.	.	46
13	870818	745	104	1	3	L	1.3	17.1	0.5	0.29	S503	.	.	3
13	870818	745	104	1	3	L	1.3	17.1	0.5	0.29	S487	.	.	4
13	870818	745	104	1	3	L	1.3	17.1	0.5	0.29	H631	.	.	51
13	870818	745	104	1	3	L	1.3	17.1	0.5	0.29	S999	.	.	3

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TRIP	DATE	TIME	STN	SET	HAUL	TIDE	THGHT	TEMP	SAL	CURR	SPEC	GROUP	STAGE	CATCH
13	870818	805	104	2	3	L	1.3	17.1	0.5	0.29	S823	.	.	14
13	870818	805	104	2	3	L	1.3	17.1	0.5	0.29	S665	.	.	8
13	870818	805	104	2	3	L	1.3	17.1	0.5	0.29	S424	.	.	8
13	870818	805	104	2	3	L	1.3	17.1	0.5	0.29	S036	.	.	1
13	870818	805	104	2	3	L	1.3	17.1	0.5	0.29	S487	.	.	3
13	870818	805	104	2	3	L	1.3	17.1	0.5	0.29	H631	.	.	6
13	870818	812	104	3	3	L	1.3	17.1	0.5	0.29	S823	.	.	7
13	870818	812	104	3	3	L	1.3	17.1	0.5	0.29	S665	.	.	5
13	870818	812	104	3	3	L	1.3	17.1	0.5	0.29	S424	.	.	5
13	870818	812	104	3	3	L	1.3	17.1	0.5	0.29	S503	.	.	1
13	870818	812	104	3	3	L	1.3	17.1	0.5	0.29	H631	.	.	2
13	870818	812	104	3	3	L	1.3	17.1	0.5	0.29	H118	4	4	1
13	870818	832	105	1	3	L	1.3	17.1	0.5	0.29	S424	.	.	43
13	870818	832	105	1	3	L	1.3	17.1	0.5	0.29	S823	.	.	38
13	870818	832	105	1	3	L	1.3	17.1	0.5	0.29	H631	.	.	19
13	870818	832	105	1	3	L	1.3	17.1	0.5	0.29	S487	.	.	2
13	870818	832	105	1	3	L	1.3	17.1	0.5	0.29	S544	.	.	3
13	870818	836	105	2	3	L	1.3	17.1	0.5	0.29	S424	.	.	3
13	870818	836	105	2	3	L	1.3	17.1	0.5	0.29	S823	.	.	39
13	870818	836	105	2	3	L	1.3	17.1	0.5	0.29	H631	.	.	7
13	870818	842	105	3	3	L	1.3	17.1	0.5	0.29	S424	.	.	6
13	870818	842	105	3	3	L	1.3	17.1	0.5	0.29	S823	.	.	27
13	870818	842	105	3	3	L	1.3	17.1	0.5	0.29	H631	.	.	5
13	870818	1410	101	1	3	H	4.2	18.9	1.3	0.00	H096	.	.	1
13	870818	1410	101	1	3	H	4.2	18.9	1.3	0.00	S503	.	.	1
13	870818	1410	101	1	3	H	4.2	18.9	1.3	0.00	S665	.	.	4
13	870818	1410	101	1	3	H	4.2	18.9	1.3	0.00	S823	.	.	1
13	870818	1415	101	2	3	H	4.2	18.9	1.3	0.00	S665	.	.	1
13	870818	1415	101	2	3	H	4.2	18.9	1.3	0.00	S487	.	.	1
13	870818	1415	101	2	3	H	4.2	18.9	1.3	0.00	S424	.	.	3
13	870818	1420	101	3	3	H	4.2	18.9	1.3	0.00	H096	.	.	1
13	870818	1420	101	3	3	H	4.2	18.9	1.3	0.00	S665	.	.	3
13	870818	1420	101	3	3	H	4.2	18.9	1.3	0.00	S424	.	.	3
13	870818	1420	101	3	3	H	4.2	18.9	1.3	0.00	H136	.	.	1
13	870818	1420	101	3	3	H	4.2	18.9	1.3	0.00	H143	.	.	1
13	870818	1500	102	1	3	H	4.2	19.0	0.2	0.11	S665	.	.	2
13	870818	1505	102	2	3	H	4.2	19.0	0.2	0.11	S665	.	.	1
13	870818	1510	102	3	3	H	4.2	19.0	0.2	0.11	S665	.	.	1
13	870818	1510	102	3	3	H	4.2	19.0	0.2	0.11	H096	.	.	3
13	870818	1530	104	1	3	H	4.2	17.6	0.0	0.00	S424	.	.	3
13	870818	1530	104	1	3	H	4.2	17.6	0.0	0.00	S823	.	.	1
13	870818	1535	104	2	3	H	4.2	17.6	0.0	0.00	S424	.	.	1
13	870818	1535	104	2	3	H	4.2	17.6	0.0	0.00	S823	.	.	5
13	870818	1535	104	2	3	H	4.2	17.6	0.0	0.00	S665	.	.	1
13	870818	1535	104	2	3	H	4.2	17.6	0.0	0.00	H631	.	.	2

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TRIP	DATE	TIME	STN	SET	HAUL	TIDE	THGHT	TEMP	SAL	CURR	SPEC	GROUP	STAGE	CATCH
13	870818	1540	104	3	3	H	4.2	17.6	0.0	0.00	S424	.	.	1
13	870818	1540	104	3	3	H	4.2	17.6	0.0	0.00	S665	.	.	1
13	870818	1540	104	3	3	H	4.2	17.6	0.0	0.00	H631	.	.	1
13	870818	1540	104	3	3	H	4.2	17.6	0.0	0.00	S503	.	.	1
13	870818	1600	105	1	3	H	4.2	17.6	0.0	0.00	S503	.	.	2
13	870818	1600	105	1	3	H	4.2	17.6	0.0	0.00	S424	.	.	1
13	870818	1605	105	2	3	H	4.2	17.6	0.0	0.00	S424	.	.	1
13	870818	1605	105	2	3	H	4.2	17.6	0.0	0.00	S665	.	.	1
13	870818	1610	105	3	3	H	4.2	17.6	0.0	0.00		.	.	0
14	870916	550	105	1	3	L	1.5	16.0	.	.	H631	.	.	56
14	870916	550	105	1	3	L	1.5	16.0	.	.	S424	.	.	47
14	870916	550	105	1	3	L	1.5	16.0	.	.	S823	.	.	54
14	870916	550	105	1	3	L	1.5	16.0	.	.	S544	.	.	4
14	870916	550	105	1	3	L	1.5	16.0	.	.	H143	.	.	3
14	870916	550	105	1	3	L	1.5	16.0	.	.	S665	.	.	1
14	870916	600	105	2	3	L	1.5	16.0	.	.	H631	.	.	3
14	870916	600	105	2	3	L	1.5	16.0	.	.	S424	.	.	8
14	870916	600	105	2	3	L	1.5	16.0	.	.	S823	.	.	18
14	870916	615	105	3	3	L	1.5	16.0	.	.	H631	.	.	3
14	870916	615	105	3	3	L	1.5	16.0	.	.	S424	.	.	2
14	870916	615	105	3	3	L	1.5	16.0	.	.	S823	.	.	1
14	870916	615	105	3	3	L	1.5	16.0	.	.	S503	.	.	2
14	870916	630	104	1	3	L	1.5	16.0	.	0.00	H136	.	.	63
14	870916	630	104	1	3	L	1.5	16.0	.	0.00	H631	.	.	13
14	870916	630	104	1	3	L	1.5	16.0	.	0.00	S424	.	.	28
14	870916	630	104	1	3	L	1.5	16.0	.	0.00	S823	.	.	11
14	870916	630	104	1	3	L	1.5	16.0	.	0.00	S544	.	.	1
14	870916	630	104	1	3	L	1.5	16.0	.	0.00	S655	.	.	9
14	870916	630	104	1	3	L	1.5	16.0	.	0.00	S503	.	.	8
14	870916	630	104	1	3	L	1.5	16.0	.	0.00	S487	.	.	2
14	870916	635	104	2	3	L	1.5	16.0	.	0.00	H136	.	.	55
14	870916	635	104	2	3	L	1.5	16.0	.	0.00	H631	.	.	15
14	870916	635	104	2	3	L	1.5	16.0	.	0.00	S424	.	.	10
14	870916	635	104	2	3	L	1.5	16.0	.	0.00	S823	.	.	5
14	870916	635	104	2	3	L	1.5	16.0	.	0.00	S544	.	.	1
14	870916	635	104	2	3	L	1.5	16.0	.	0.00	S665	.	.	18
14	870916	635	104	2	3	L	1.5	16.0	.	0.00	S503	.	.	10
14	870916	640	104	3	3	L	1.5	16.0	.	0.00	H136	.	.	219
14	870916	640	104	3	3	L	1.5	16.0	.	0.00	H631	.	.	15
14	870916	640	104	3	3	L	1.5	16.0	.	0.00	S424	.	.	2
14	870916	640	104	3	3	L	1.5	16.0	.	0.00	S823	.	.	8
14	870916	640	104	3	3	L	1.5	16.0	.	0.00	S544	.	.	1
14	870916	640	104	3	3	L	1.5	16.0	.	0.00	S665	.	.	1
14	870916	640	104	3	3	L	1.5	16.0	.	0.00	H124	4	3	1
14	870916	915	102	1	3	L	1.5	17.0	.	0.06	H631	.	.	9

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TRIP	DATE	TIME	STN	SET	HAUL	TIDE	THGHT	TEMP	SAL	CURR	SPEC	GROUP	STAGE	CATCH
14	870916	915	102	1	3	L	1.5	17.0	.	0.06	S823	.	.	7
14	870916	915	102	1	3	L	1.5	17.0	.	0.06	H146	.	.	7
14	870916	915	102	1	3	L	1.5	17.0	.	0.06	H143	.	.	21
14	870916	925	102	2	3	L	1.5	17.0	.	0.06	H518	.	.	1
14	870916	925	102	2	3	L	1.5	17.0	.	0.06	H631	.	.	1
14	870916	925	102	2	3	L	1.5	17.0	.	0.06	H146	.	.	4
14	870916	925	102	2	3	L	1.5	17.0	.	0.06	H143	.	.	7
14	870916	925	102	2	3	L	1.5	17.0	.	0.06	S665	.	.	4
14	870916	939	102	3	3	L	1.5	17.0	.	0.06	S487	.	.	1
14	870916	939	102	3	3	L	1.5	17.0	.	0.06	S424	.	.	2
14	870916	939	102	3	3	L	1.5	17.0	.	0.06	H143	.	.	4
14	870916	939	102	3	3	L	1.5	17.0	.	0.06	H146	.	.	2
14	870916	939	102	3	3	L	1.5	17.0	.	0.06	H304	.	.	1
14	870916	1415	101	1	3	H	4.3	17.0	.	.	S424	.	.	3
14	870916	1415	101	1	3	H	4.3	17.0	.	.	S665	.	.	24
14	870916	1415	101	1	3	H	4.3	17.0	.	.	S823	.	.	1
14	870916	1420	101	2	3	H	4.3	17.0	.	.	S665	.	.	23
14	870916	1420	101	2	3	H	4.3	17.0	.	.	S424	.	.	7
14	870916	1420	101	2	3	H	4.3	17.0	.	.	S544	.	.	1
14	870916	1425	101	3	3	H	4.3	17.0	.	.	S424	.	.	6
14	870916	1425	101	3	3	H	4.3	17.0	.	.	S665	.	.	15
14	870916	1425	101	3	3	H	4.3	17.0	.	.	S487	.	.	1
14	870916	1510	105	1	3	H	4.3	.	.	.	S823	.	.	2
14	870916	1510	105	1	3	H	4.3	.	.	.	S665	.	.	13
14	870916	1510	105	1	3	H	4.3	.	.	.	H143	.	.	8
14	870916	1510	105	1	3	H	4.3	.	.	.	H146	.	.	2
14	870916	1510	105	1	3	H	4.3	.	.	.	S424	.	.	2
14	870916	1525	105	2	3	H	4.3	.	.	.	S665	.	.	63
14	870916	1525	105	2	3	H	4.3	.	.	.	S424	.	.	11
14	870916	1525	105	2	3	H	4.3	.	.	.	H143	.	.	3
14	870916	1540	105	3	3	H	4.3	.	.	.	S823	.	.	2
14	870916	1540	105	3	3	H	4.3	.	.	.	S665	.	.	6
14	870916	1540	105	3	3	H	4.3	.	.	.	H146	.	.	54
14	870916	1540	105	3	3	H	4.3	.	.	.	H143	.	.	68
14	870916	1545	104	1	3	H	4.3	17.0	.	0.05	H631	.	.	6
14	870916	1545	104	1	3	H	4.3	17.0	.	0.05	S503	.	.	2
14	870916	1545	104	1	3	H	4.3	17.0	.	0.05	S665	.	.	1
14	870916	1545	104	1	3	H	4.3	17.0	.	0.05	H146	.	.	46
14	870916	1545	104	1	3	H	4.3	17.0	.	0.05	H096	.	.	1
14	870916	1545	104	1	3	H	4.3	17.0	.	0.05	H143	.	.	47
14	870916	1545	104	1	3	H	4.3	17.0	.	0.05	S424	.	.	3
14	870916	1600	104	2	3	H	4.3	17.0	.	0.05	H631	.	.	7
14	870916	1600	104	2	3	H	4.3	17.0	.	0.05	H146	.	.	14
14	870916	1600	104	2	3	H	4.3	17.0	.	0.05	H143	.	.	35
14	870916	1600	104	2	3	H	4.3	17.0	.	0.05	S424	.	.	1

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TRIP	DATE	TIME	STN	SET	HAUL	TIDE	THGHT	TEMP	SAL	CURR	SPEC	GROUP	STAGE	CATCH
14	870916	1600	104	2	3	H	4.3	17.0	.	0.05	S665	.	.	5
14	870916	1600	104	2	3	H	4.3	17.0	.	0.05	S503	.	.	3
14	870916	1600	104	2	3	H	4.3	17.0	.	0.05	S823	.	.	2
14	870916	1615	104	3	3	H	4.3	17.0	.	0.05	S424	.	.	3
14	870916	1615	104	3	3	H	4.3	17.0	.	0.05	S665	.	.	5
14	870916	1615	104	3	3	H	4.3	17.0	.	0.05	S503	.	.	6
14	870916	1615	104	3	3	H	4.3	17.0	.	0.05	S823	.	.	3
14	870916	1615	104	3	3	H	4.3	17.0	.	0.05	H146	.	.	4
14	870916	1615	104	3	3	H	4.3	17.0	.	0.05	H143	.	.	6
14	870916	1615	104	3	3	H	4.3	17.0	.	0.05	H631	.	.	1
14	870916	1645	102	1	3	H	4.3	16.0	.	0.05	S665	.	.	16
14	870916	1645	102	1	3	H	4.3	16.0	.	0.05	S503	.	.	1
14	870916	1652	102	2	3	H	4.3	16.0	.	0.05	H124	4	4	1
14	870916	1652	102	2	3	H	4.3	16.0	.	0.05	S745	.	.	1
14	870916	1652	102	2	3	H	4.3	16.0	.	0.05	S665	.	.	1
14	870916	1652	102	2	3	H	4.3	16.0	.	0.05	S143	.	.	1
14	870916	1700	102	3	3	H	4.3	16.0	.	0.05	S487	.	.	1
14	870916	1700	102	3	3	H	4.3	16.0	.	0.05	S665	.	.	3
14	870918	615	101	1	3	L	1.5	15.5	.	0.17	H096	.	.	2
14	870918	615	101	1	3	L	1.5	15.5	.	0.17	H631	.	.	27
14	870918	615	101	1	3	L	1.5	15.5	.	0.17	H518	.	.	4
14	870918	615	101	1	3	L	1.5	15.5	.	0.17	S424	.	.	3
14	870918	615	101	1	3	L	1.5	15.5	.	0.17	S823	.	.	1
14	870918	620	101	2	3	L	1.5	15.5	.	0.17	H631	.	.	9
14	870918	620	101	2	3	L	1.5	15.5	.	0.17	H518	.	.	4
14	870918	620	101	2	3	L	1.5	15.5	.	0.17	S424	.	.	38
14	870918	620	101	2	3	L	1.5	15.5	.	0.17	S665	.	.	4
14	870918	620	101	2	3	L	1.5	15.5	.	0.17	S494	.	.	1
14	870918	630	101	3	3	L	1.5	15.5	.	0.17	S424	.	.	10
14	870918	630	101	3	3	L	1.5	15.5	.	0.17	H631	.	.	15
14	870918	630	101	3	3	L	1.5	15.5	.	0.17	H518	.	.	3
14	870918	630	101	3	3	L	1.5	15.5	.	0.17	S665	.	.	2
15	871014	1050	102	1	3	H	4.3	12.5	.	0.03	H096	.	.	102
15	871014	1050	102	1	3	H	4.3	12.5	.	0.03	S424	.	.	4
15	871014	1050	102	1	3	H	4.3	12.5	.	0.03	H143	.	.	26
15	871014	1050	102	1	3	H	4.3	12.5	.	0.03	S503	.	.	2
15	871014	1050	102	1	3	H	4.3	12.5	.	0.03	S665	.	.	7
15	871014	1050	102	1	3	H	4.3	12.5	.	0.03	H631	.	.	1
15	871014	1050	102	1	3	H	4.3	12.5	.	0.03	S823	.	.	1
15	871014	1050	102	1	3	H	4.3	12.5	.	0.03	S523	.	.	4
15	871014	1100	102	2	3	H	4.3	12.5	.	0.03	S665	.	.	5
15	871014	1100	102	2	3	H	4.3	12.5	.	0.03	S424	.	.	5
15	871014	1100	102	2	3	H	4.3	12.5	.	0.03	S523	.	.	1
15	871014	1100	102	2	3	H	4.3	12.5	.	0.03	H304	.	.	2
15	871014	1100	102	2	3	H	4.3	12.5	.	0.03	H143	.	.	1

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TRIP	DATE	TIME	STN	SET	HAUL	TIDE	THGHT	TEMP	SAL	CURR	SPEC	GROUP	STAGE	CATCH
15	871014	1100	102	2	3	H	4.3	12.5	.	0.03	S487	.	.	1
15	871014	1110	102	3	3	H	4.3	12.5	.	0.03	H304	.	.	1
15	871014	1110	102	3	3	H	4.3	12.5	.	0.03	S424	.	.	8
15	871014	1110	102	3	3	H	4.3	12.5	.	0.03	S544	.	.	2
15	871014	1110	102	3	3	H	4.3	12.5	.	0.03	S665	.	.	1
15	871014	1110	102	3	3	H	4.3	12.5	.	0.03	H096	.	.	21
15	871014	1110	102	3	3	H	4.3	12.5	.	0.03	H518	.	.	1
15	871014	1110	102	3	3	H	4.3	12.5	.	0.03	S823	.	.	1
15	871014	1130	101	1	3	H	4.3	12.5	.	.	H304	.	.	3
15	871014	1130	101	1	3	H	4.3	12.5	.	.	S424	.	.	1
15	871014	1140	101	2	3	H	4.3	12.5	.	.	H304	.	.	7
15	871014	1140	101	2	3	H	4.3	12.5	.	.	S424	.	.	1
15	871014	1140	101	2	3	H	4.3	12.5	.	.	H631	.	.	1
15	871014	1140	101	2	3	H	4.3	12.5	.	.	H143	.	.	1
15	871014	1145	101	3	3	H	4.3	12.5	.	.	H304	.	.	3
15	871014	1145	101	3	3	H	4.3	12.5	.	.	S424	.	.	1
15	871014	1145	101	3	3	H	4.3	12.5	.	.	S665	.	.	4
15	871014	1206	104	1	3	H	4.3	12.0	.	.	H096	.	.	2
15	871014	1206	104	1	3	H	4.3	12.0	.	.	S544	.	.	1
15	871014	1206	104	1	3	H	4.3	12.0	.	.	S424	.	.	2
15	871014	1206	104	1	3	H	4.3	12.0	.	.	H631	.	.	1
15	871014	1206	104	1	3	H	4.3	12.0	.	.	H304	.	.	1
15	871014	1215	104	2	3	H	4.3	12.0	.	.	H631	.	.	4
15	871014	1225	104	3	3	H	4.3	12.0	.	.	S424	.	.	2
15	871014	1230	105	1	3	H	4.3	12.0	.	0.05	S503	.	.	1
15	871014	1230	105	1	3	H	4.3	12.0	.	0.05	S665	.	.	1
15	871014	1235	105	2	3	H	4.3	12.0	.	0.05	S503	.	.	1
15	871014	1235	105	2	3	H	4.3	12.0	.	0.05	S665	.	.	35
15	871014	1235	105	2	3	H	4.3	12.0	.	0.05	H096	.	.	2
15	871014	1235	105	2	3	H	4.3	12.0	.	0.05	H143	.	.	4
15	871014	1235	105	2	3	H	4.3	12.0	.	0.05	S823	.	.	1
15	871014	1235	105	2	3	H	4.3	12.0	.	0.05	S424	.	.	1
15	871014	1245	105	3	3	H	4.3	12.0	.	0.05	S665	.	.	40
15	871014	1245	105	3	3	H	4.3	12.0	.	0.05	S823	.	.	4
15	871020	1000	101	1	3	L	2.3	.	.	0.08	H631	.	.	22
15	871020	1000	101	1	3	L	2.3	.	.	0.08	H518	.	.	2
15	871020	1000	101	1	3	L	2.3	.	.	0.08	S665	.	.	1
15	871020	1005	101	2	3	L	2.3	.	.	0.08	H631	.	.	10
15	871020	1005	101	2	3	L	2.3	.	.	0.08	H518	.	.	1
15	871020	1015	101	3	3	L	2.3	.	.	0.08	H631	.	.	14
15	871020	1015	101	3	3	L	2.3	.	.	0.08	H518	.	.	3
15	871020	1015	101	3	3	L	2.3	.	.	0.08	S665	.	.	1
15	871020	1035	102	1	3	L	2.3	.	.	0.05	H631	.	.	11
15	871020	1035	102	1	3	L	2.3	.	.	0.05	S665	.	.	2
15	871020	1035	102	1	3	L	2.3	.	.	0.05	S823	.	.	5

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TRIP	DATE	TIME	STN	SET	HAUL	TIDE	THGHT	TEMP	SAL	CURR	SPEC	GROUP	STAGE	CATCH
15	871020	1035	102	1	3	L	2.3	.	.	0.05	H518	.	.	1
15	871020	1040	102	2	3	L	2.3	.	.	0.05	H631	.	.	1
15	871020	1045	102	3	3	L	2.3	.	.	0.05	H631	.	.	5
15	871020	1045	102	3	3	L	2.3	.	.	0.05	S665	.	.	1
15	871020	1045	102	3	3	L	2.3	.	.	0.05	S823	.	.	1
15	871020	1115	104	1	3	L	2.3	.	.	.	S665	.	.	1
15	871020	1115	104	1	3	L	2.3	.	.	.	S823	.	.	1
15	871020	1120	104	2	3	L	2.3	.	.	.	H096	.	.	3
15	871020	1120	104	2	3	L	2.3	.	.	.	H631	.	.	2
15	871020	1120	104	2	3	L	2.3	.	.	.	S665	.	.	1
15	871020	1120	104	2	3	L	2.3	.	.	.	H146	.	.	1
15	871020	1125	104	3	3	L	2.3	.	.	.	H096	.	.	15
15	871020	1125	104	3	3	L	2.3	.	.	.	S665	.	.	1
15	871020	1125	104	3	3	L	2.3	.	.	.	S424	.	.	1
15	871020	1130	105	1	3	L	2.3	.	.	0.11	S503	.	.	1
15	871020	1130	105	1	3	L	2.3	.	.	0.11	S665	.	.	23
15	871020	1130	105	1	3	L	2.3	.	.	0.11	S823	.	.	6
15	871020	1135	105	2	3	L	2.3	.	.	0.11	S665	.	.	2
15	871020	1135	105	2	3	L	2.3	.	.	0.11	S823	.	.	10
15	871020	1135	105	2	3	L	2.3	.	.	0.11	H631	.	.	2
15	871020	1150	105	3	3	L	2.3	.	.	0.11	S823	.	.	13
15	871020	1150	105	3	3	L	2.3	.	.	0.11	H631	.	.	1
15	871020	1150	105	3	3	L	2.3	.	.	0.11	S424	.	.	1
15	871020	1150	105	3	3	L	2.3	.	.	0.11	S291	.	.	1
15	871020	1150	105	3	3	L	2.3	.	.	0.11	H096	.	.	1
16	871119	943	101	1	3	L	3.1	.	.	0.10	H631	.	.	10
16	871119	943	101	1	3	L	3.1	.	.	0.10	H146	.	.	10
16	871119	943	101	1	3	L	3.1	.	.	0.10	H108	4	6	1
16	871119	943	101	1	3	L	3.1	.	.	0.10	H143	.	.	276
16	871119	1000	101	2	3	L	3.1	.	.	0.10	H631	.	.	7
16	871119	1000	101	2	3	L	3.1	.	.	0.10	H096	.	.	1
16	871119	1000	101	2	3	L	3.1	.	.	0.10	S665	.	.	1
16	871119	1005	101	3	3	L	3.1	.	.	0.10	H631	.	.	2
16	871119	1028	102	1	3	L	3.1	.	.	0.02	S665	.	.	1
16	871119	1028	102	1	3	L	3.1	.	.	0.02	H631	.	.	1
16	871119	1031	102	2	3	L	3.1	.	.	0.02	S665	.	.	1
16	871119	1031	102	2	3	L	3.1	.	.	0.02	S823	.	.	1
16	871119	1038	102	3	3	L	3.1	.	.	0.02	S665	.	.	43
16	871119	1038	102	3	3	L	3.1	.	.	0.02	H143	.	.	7
16	871119	1100	104	1	3	L	3.1	.	.	0.05	H096	.	.	13
16	871119	1100	104	1	3	L	3.1	.	.	0.05	H631	.	.	13
16	871119	1108	104	2	3	L	3.1	.	.	0.05	H096	.	.	1
16	871119	1108	104	2	3	L	3.1	.	.	0.05	H631	.	.	4
16	871119	1108	104	2	3	L	3.1	.	.	0.05	S665	.	.	2
16	871119	1115	104	3	3	L	3.1	.	.	0.05	H096	.	.	2

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TRIP	DATE	TIME	STN	SET	HAUL	TIDE	THGHT	TEMP	SAL	CURR	SPEC	GROUP	STAGE	CATCH
16	871119	1115	104	3	3	L	3.1	.	.	0.05	H631	.	.	8
16	871119	1115	104	3	3	L	3.1	.	.	0.05	S665	.	.	1
16	871119	1125	105	1	3	L	3.1	8.0	.	0.05		.	.	0
16	871119	1133	105	2	3	L	3.1	8.0	.	0.05	H143	.	.	1
16	871119	1138	105	3	3	L	3.1	8.0	.	0.05	S665	.	.	1
16	871119	1138	105	3	3	L	3.1	8.0	.	0.05	H631	.	.	1
16	871125	919	101	1	3	H	4.8	7.0	.	0.00	H631	.	.	1
16	871125	919	101	1	3	H	4.8	7.0	.	0.00	S665	.	.	2
16	871125	927	101	2	3	H	4.8	7.0	.	0.00	H631	.	.	4
16	871125	927	101	2	3	H	4.8	7.0	.	0.00	S665	.	.	1
16	871125	934	101	3	3	H	4.8	7.0	.	0.00	S665	.	.	1
16	871125	934	101	3	3	H	4.8	7.0	.	0.00	H136	.	.	2
16	871125	956	102	1	3	H	4.8	7.5	.	0.06	S665	.	.	3
16	871125	956	102	1	3	H	4.8	7.5	.	0.06	H096	.	.	15
16	871125	1005	102	2	3	H	4.8	7.5	.	0.06	S665	.	.	2
16	871125	1005	102	2	3	H	4.8	7.5	.	0.06	H096	.	.	1
16	871125	1005	102	2	3	H	4.8	7.5	.	0.06	H136	.	.	3
16	871125	1012	102	3	3	H	4.8	7.5	.	0.06	S665	.	.	3
16	871125	1012	102	3	3	H	4.8	7.5	.	0.06	H136	.	.	2
16	871125	1012	102	3	3	H	4.8	7.5	.	0.06	S823	.	.	1
16	871125	1040	104	1	3	H	4.8	8.0	.	0.10	H096	.	.	20
16	871125	1040	104	1	3	H	4.8	8.0	.	0.10	H136	.	.	6
16	871125	1040	104	1	3	H	4.8	8.0	.	0.10	S665	.	.	45
16	871125	1049	104	2	3	H	4.8	8.0	.	0.10	H136	.	.	3
16	871125	1049	104	2	3	H	4.8	8.0	.	0.10	S665	.	.	3
16	871125	1049	104	2	3	H	4.8	8.0	.	0.10	H631	.	.	1
16	871125	1057	104	3	3	H	4.8	8.0	.	0.10	S665	.	.	3
16	871125	1106	105	1	3	H	4.8	7.0	.	0.00	S665	.	.	6
16	871125	1106	105	1	3	H	4.8	7.0	.	0.00	S424	.	.	1
16	871125	1116	105	2	3	H	4.8	7.0	.	0.00	S665	.	.	9
16	871125	1116	105	2	3	H	4.8	7.0	.	0.00	S823	.	.	1
16	871125	1116	105	2	3	H	4.8	7.0	.	0.00	H518	.	.	1
16	871125	1116	105	2	3	H	4.8	7.0	.	0.00	S503	.	.	2
16	871125	1120	105	3	3	H	4.8	7.0	.	0.00	S665	.	.	10
16	871125	1120	105	3	3	H	4.8	7.0	.	0.00	S424	.	.	2
17	871215	900	101	1	3	L	2.9	6.0	.	0.03	H631	.	.	5
17	871215	900	101	1	3	L	2.9	6.0	.	0.03	H146	.	.	1
17	871215	910	101	2	3	L	2.9	6.0	.	0.03	H146	.	.	1
17	871215	910	101	2	3	L	2.9	6.0	.	0.03	H518	.	.	1
17	871215	910	101	2	3	L	2.9	6.0	.	0.03	S665	.	.	1
17	871215	915	101	3	3	L	2.9	6.0	.	0.03	H146	.	.	1
17	871215	930	102	1	3	L	2.9	6.0	.	0.01		.	.	0
17	871215	938	102	2	3	L	2.9	6.0	.	0.01	S665	.	.	1
17	871215	945	102	3	3	L	2.9	6.0	.	0.01	S665	.	.	1
17	871215	945	102	3	3	L	2.9	6.0	.	0.01	H631	.	.	1

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17	871215	1010	104	1	3	L	2.9	6.0	.	.		.	.	0
17	871215	1020	104	2	3	L	2.9	6.0	.	.	H146	.	.	1
17	871215	1035	104	3	3	L	2.9	6.0	.	.	H631	.	.	6
17	871215	1035	104	3	3	L	2.9	6.0	.	.	H518	.	.	1
17	871215	1035	104	3	3	L	2.9	6.0	.	.	H146	.	.	3
17	871215	1045	105	1	3	L	2.9	5.8	.	0.17		.	.	0
17	871215	1050	105	2	3	L	2.9	5.8	.	0.17	S665	.	.	1
17	871215	1100	105	3	3	L	2.9	5.8	.	0.17	H146	.	.	1
17	871215	1235	101	1	3	H	4.4	6.0	.	.		.	.	0
17	871215	1240	101	2	3	H	4.4	6.0	.	.	S665	.	.	1
17	871215	1250	101	3	3	H	4.4	6.0	.	.		.	.	0
17	871215	1302	102	1	3	H	4.4	6.5	.	0.11		.	.	0
17	871215	1325	102	2	3	H	4.4	6.5	.	0.11	S665	.	.	1
17	871215	1340	102	3	3	H	4.4	6.5	.	0.11		.	.	0
17	871215	1400	104	1	3	H	4.4	6.5	.	.	H631	.	.	2
17	871215	1400	104	1	3	H	4.4	6.5	.	.	H146	.	.	5
17	871215	1400	104	1	3	H	4.4	6.5	.	.	S665	.	.	1
17	871215	1410	104	2	3	H	4.4	6.5	.	.	H631	.	.	2
17	871215	1410	104	2	3	H	4.4	6.5	.	.	S665	.	.	1
17	871215	1415	104	3	3	H	4.4	6.5	.	.	H631	.	.	1
17	871215	1415	104	3	3	H	4.4	6.5	.	.	H518	.	.	1
17	871215	1425	105	1	3	H	4.4	6.5	.	0.18	S823	.	.	1
17	871215	1430	105	2	3	H	4.4	6.5	.	0.18		.	.	0
17	871215	1440	105	3	3	H	4.4	6.5	.	0.18	S823	.	.	1
17	871215	1440	105	3	3	H	4.4	6.5	.	0.18	S665	.	.	1
1	880119	1015	101	1	3	L	3.7	3.6	4.7	0.03	H631	.	.	3
1	880119	1015	101	1	3	L	3.7	3.6	4.7	0.03	H146	.	.	2
1	880119	1015	101	1	3	L	3.7	3.6	4.7	0.03	S665	.	.	3
1	880119	1015	101	1	3	L	3.7	3.6	4.7	0.03	H518	.	.	1
1	880119	1025	101	2	3	L	3.7	3.6	4.7	0.03	H631	.	.	4
1	880119	1025	101	2	3	L	3.7	3.6	4.7	0.03	H146	.	.	1
1	880119	1025	101	2	3	L	3.7	3.6	4.7	0.03	S665	.	.	4
1	880119	1035	101	3	3	L	3.7	3.6	4.7	0.03	H631	.	.	1
1	880119	1035	101	3	3	L	3.7	3.6	4.7	0.03	H146	.	.	19
1	880119	1035	101	3	3	L	3.7	3.6	4.7	0.03	S665	.	.	3
1	880119	1110	104	1	3	L	3.7	3.6	4.7	0.53	S665	.	.	1
1	88C119	1110	104	1	3	L	3.7	3.6	4.7	0.53	H146	.	.	2
1	880119	1110	104	1	3	L	3.7	3.6	4.7	0.53	H631	.	.	7
1	880119	1120	104	2	3	L	3.7	3.6	4.7	0.53	H631	.	.	1
1	880119	1120	104	2	3	L	3.7	3.6	4.7	0.53	S665	.	.	1
1	880119	1120	104	2	3	L	3.7	3.6	4.7	0.53	H134	4	6	1
1	880119	1130	104	3	3	L	3.7	3.6	4.7	0.53	S665	.	.	12
1	880119	1145	105	1	3	L	3.7	.	.	.	S665	.	.	2
1	880119	1145	105	1	3	L	3.7	.	.	.	H146	.	.	2
1	880119	1155	105	2	3	L	3.7	.	.	.	H146	.	.	1

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1	880119	1155	105	2	3	L	3.7	.	.	.	S665	.	.	4
1	880119	1200	105	3	3	L	3.7	.	.	.	S665	.	.	1
1	880119	1215	102	1	3	L	3.7	4.2	8.9	0.02	H518	.	.	1
1	880119	1215	102	1	3	L	3.7	4.2	8.9	0.02	S665	.	.	1
1	880119	1220	102	2	3	L	3.7	4.2	8.9	0.02		.	.	0
1	880119	1230	102	3	3	L	3.7	4.2	8.9	0.02	S665	.	.	2
2	880218	836	101	1	3	L	2.7	4.4	9.6	0.00	S665	.	.	6
2	880218	836	101	1	3	L	2.7	4.4	9.6	0.00	H518	.	.	1
2	880218	843	101	2	3	L	2.7	4.4	9.6	0.00	S665	.	.	5
2	880218	843	101	2	3	L	2.7	4.4	9.6	0.00	H518	.	.	2
2	880218	843	101	2	3	L	2.7	4.4	9.6	0.00	H146	.	.	2
2	880218	851	101	3	3	L	2.7	4.4	9.6	0.00	S665	.	.	3
2	880218	851	101	3	3	L	2.7	4.4	9.6	0.00	H518	.	.	1
2	880218	911	102	1	3	L	2.7	3.7	9.4	0.01	H631	.	.	2
2	880218	911	102	1	3	L	2.7	3.7	9.4	0.01	H146	.	.	1
2	880218	911	102	1	3	L	2.7	3.7	9.4	0.01	S665	.	.	4
2	880218	917	102	2	3	L	2.7	3.7	9.4	0.01	S665	.	.	9
2	880218	917	102	2	3	L	2.7	3.7	9.4	0.01	H146	.	.	1
2	880218	917	102	2	3	L	2.7	3.7	9.4	0.01	H631	.	.	4
2	880218	926	102	3	3	L	2.7	3.7	9.4	0.01	H146	.	.	1
2	880218	926	102	3	3	L	2.7	3.7	9.4	0.01	S665	.	.	2
2	880218	952	104	1	3	L	2.7	4.8	3.4	0.48	S665	.	.	25
2	880218	952	104	1	3	L	2.7	4.8	3.4	0.48	H631	.	.	13
2	880218	952	104	1	3	L	2.7	4.8	3.4	0.48	H146	.	.	1
2	880218	952	104	1	3	L	2.7	4.8	3.4	0.48	S503	.	.	2
2	880218	952	104	1	3	L	2.7	4.8	3.4	0.48	H518	.	.	1
2	880218	952	104	1	3	L	2.7	4.8	3.4	0.48	S424	.	.	1
2	880218	959	104	2	3	L	2.7	4.8	3.4	0.48	S424	.	.	1
2	880218	959	104	2	3	L	2.7	4.8	3.4	0.48	H518	.	.	2
2	880218	959	104	2	3	L	2.7	4.8	3.4	0.48	S665	.	.	60
2	880218	959	104	2	3	L	2.7	4.8	3.4	0.48	H146	.	.	1
2	880218	1008	104	3	3	L	2.7	4.8	3.4	0.48	H631	.	.	1
2	880218	1008	104	3	3	L	2.7	4.8	3.4	0.48	H146	.	.	5
2	880218	1008	104	3	3	L	2.7	4.8	3.4	0.48	S503	.	.	1
2	880218	1008	104	3	3	L	2.7	4.8	3.4	0.48	S665	.	.	50
2	880218	1008	104	3	3	L	2.7	4.8	3.4	0.48	H518	.	.	1
2	880218	1028	105	1	3	L	2.7	4.6	3.0	0.48	S665	.	.	13
2	880218	1028	105	1	3	L	2.7	4.6	3.0	0.48	S823	.	.	1
2	880218	1035	105	2	3	L	2.7	4.6	3.0	0.48	S665	.	.	3
2	880218	1035	105	2	3	L	2.7	4.6	3.0	0.48	H631	.	.	2
2	880218	1035	105	2	3	L	2.7	4.6	3.0	0.48	H136	.	.	1
2	880218	1035	105	2	3	L	2.7	4.6	3.0	0.48	H518	.	.	1
2	880218	1044	105	3	3	L	2.7	4.6	3.0	0.48	S665	.	.	8
2	880218	1044	105	3	3	L	2.7	4.6	3.0	0.48	S823	.	.	2
2	880218	1044	105	3	3	L	2.7	4.6	3.0	0.48	S503	.	.	1

Table 3. Main Arm catch data.

CATCH DATA - FRASER RIVER
MAIN ARM 1987 - 1988

TRIP	DATE	TIME	STN	SET	HAUL	TIDE	THGHT	TEMP	SAL	CURR	SPEC	GROUP	STAGE	CATCH
1	870211	855	205	1	3	.	3.5	2.0	.	.	H139	.	.	4
1	870211	900	205	2	3	.	3.5	2.0	.	.	H139	.	.	12
1	870211	900	205	2	3	.	3.5	2.0	.	.	H134	.	.	1
1	870211	900	205	2	3	.	3.5	2.0	.	.	S665	.	.	1
1	870211	905	205	3	3	.	3.5	2.0	.	.	H631	.	.	2
1	870211	925	206	1	3	.	3.5	.	.	.		.	.	0
1	870211	930	206	2	3	.	3.5	.	.	.		.	.	0
1	870211	935	206	3	3	.	3.5	.	.	.		.	.	0
1	870211	1010	201	1	3	.	3.5	2.0	.	.	H139	.	.	20
1	870211	1015	201	2	3	.	3.5	2.0	.	.	S665	.	.	1
1	870211	1015	201	2	3	.	3.5	2.0	.	.	H139	.	.	4
1	870211	1020	201	3	3	.	3.5	2.0	.	.		.	.	0
1	870211	1035	208	1	3	.	3.5	2.0	.	.	H134	1	6	1
1	870211	1035	208	1	3	.	3.5	2.0	.	.	H112	3	3	1
1	870211	1035	208	1	3	.	3.5	2.0	.	.	H631	.	.	1
1	870211	1040	208	2	3	.	3.5	2.0	.	.		.	.	0
1	870211	1045	208	3	3	.	3.5	2.0	.	.	H112	.	.	1
1	870211	1045	208	3	3	.	3.5	2.0	.	.	H613	.	.	2
1	870211	1045	208	3	3	.	3.5	2.0	.	.	H139	.	.	8
1	870211	1130	203	1	3	.	3.8	2.0	.	.	H631	.	.	15
1	870211	1130	203	1	3	.	3.8	2.0	.	.	H139	.	.	5
1	870211	1140	203	2	3	.	3.8	2.0	.	.	H139	.	.	1
1	870211	1140	203	2	3	.	3.8	2.0	.	.	H631	.	.	6
1	870211	1145	203	3	3	.	3.8	2.0	.	.	H139	.	.	80
1	870211	1145	203	3	3	.	3.8	2.0	.	.	H631	.	.	1
1	870211	1200	209	1	3	.	3.8	2.0	.	.	H631	.	.	9
1	870211	1205	209	2	3	.	3.8	2.0	.	.	H631	.	.	10
1	870211	1215	209	3	3	.	3.8	2.0	.	.	S665	.	.	8
1	870211	1300	204	1	2	.	3.8	3.0	.	.	S665	.	.	2
1	870211	1300	204	1	2	.	3.8	3.0	.	.	H631	.	.	2
1	870211	1310	204	2	2	.	3.8	3.0	.	.		.	.	0
1	870211	1330	210	1	3	.	3.8	3.0	.	.	H631	.	.	1
1	870211	1330	210	1	3	.	3.8	3.0	.	.	H139	.	.	1
1	870211	1335	210	2	3	.	3.8	3.0	.	.	H112	.	.	1
1	870211	1335	210	2	3	.	3.8	3.0	.	.	S665	.	.	14
1	870211	1335	210	2	3	.	3.8	3.0	.	.	H631	.	.	1
1	870211	1345	210	3	3	.	3.8	3.0	.	.		.	.	0
2	870316	1305	211	1	1	.	4.0	.	.	.	H112	3	3	16
2	870316	1305	211	1	1	.	4.0	.	.	.	H124	3	3	25
2	870316	1305	211	1	1	.	4.0	.	.	.	S424	.	.	1
2	870316	1305	211	1	1	.	4.0	.	.	.	H631	.	.	1
2	870316	1305	211	1	1	.	4.0	.	.	.	S291	.	.	2
2	870316	1400	212	1	1	.	4.0	.	.	.	H124	3	3	3
2	870316	1400	212	1	1	.	4.0	.	.	.	H112	3	3	7
2	870316	1400	212	1	1	.	4.0	.	.	.	S424	.	.	1

CATCH DATA - FRASER RIVER
MAIN ARM 1987 - 1988

TRIP	DATE	TIME	STN	SET	HAUL	TIDE	THGHT	TEMP	SAL	CURR	SPEC	GROUP	STAGE	CATCH
2	870316	1400	212	1	1	.	4.0	.	.	.	H518	.	.	1
2	870316	1400	212	1	1	.	4.0	.	.	.	H631	.	.	2
5	870421	915	205	1	3	H	3.5	7.4	0.0	0.00	H124	4	4	2
5	870421	915	205	1	3	H	3.5	7.4	0.0	0.00	H124	4	3	3
5	870421	915	205	1	3	H	3.5	7.4	0.0	0.00	H112	4	7	5
5	870421	915	205	1	3	H	3.5	7.4	0.0	0.00	H124	1	7	1
5	870421	915	205	1	3	H	3.5	7.4	0.0	0.00	S823	.	.	1
5	870421	915	205	1	3	H	3.5	7.4	0.0	0.00	S494	.	.	1
5	870421	920	205	2	3	H	3.5	7.4	0.0	0.00	H124	4	4	2
5	870421	920	205	2	3	H	3.5	7.4	0.0	0.00	H124	4	3	1
5	870421	920	205	2	3	H	3.5	7.4	0.0	0.00	H112	4	7	2
5	870421	920	205	2	3	H	3.5	7.4	0.0	0.00	S823	.	.	1
5	870421	920	205	2	3	H	3.5	7.4	0.0	0.00	H631	.	.	1
5	870421	925	205	3	3	H	3.5	7.4	0.0	0.00	H124	4	4	1
5	870421	925	205	3	3	H	3.5	7.4	0.0	0.00	H124	4	3	1
5	870421	925	205	3	3	H	3.5	7.4	0.0	0.00	H631	.	.	1
5	870421	925	205	3	3	H	3.5	7.4	0.0	0.00	H107	1	7	1
5	870421	945	207	1	3	H	3.5	8.0	0.0	0.00	S494	.	.	3
5	870421	945	207	1	3	H	3.5	8.0	0.0	0.00	H124	4	3	4
5	870421	945	207	1	3	H	3.5	8.0	0.0	0.00	H112	4	7	8
5	870421	945	207	1	3	H	3.5	8.0	0.0	0.00	S424	.	.	1
5	870421	950	207	2	3	H	3.5	8.0	0.0	0.00	H124	4	3	11
5	870421	950	207	2	3	H	3.5	8.0	0.0	0.00	H112	4	7	2
5	870421	950	207	2	3	H	3.5	8.0	0.0	0.00	H631	.	.	2
5	870421	955	207	3	3	H	3.5	8.0	0.0	0.00	H124	4	3	2
5	870421	955	207	3	3	H	3.5	8.0	0.0	0.00	H112	4	7	4
5	870421	955	207	3	3	H	3.5	8.0	0.0	0.00	H118	4	7	2
5	870421	1015	201	1	3	H	3.5	8.3	0.0	0.00	H124	4	3	12
5	870421	1015	201	1	3	H	3.5	8.3	0.0	0.00	H112	4	7	8
5	870421	1015	201	1	3	H	3.5	8.3	0.0	0.00	S665	.	.	1
5	870421	1020	201	2	3	H	3.5	8.3	0.0	0.00	H631	.	.	3
5	870421	1030	201	3	3	H	3.5	8.3	0.0	0.00	H631	.	.	5
5	870421	1030	201	3	3	H	3.5	8.3	0.0	0.00	S424	.	.	1
5	870421	1030	201	3	3	H	3.5	8.3	0.0	0.00	S665	.	.	2
5	870421	1045	203	1	3	H	3.5	9.2	0.0	0.00	H118	4	7	1
5	870421	1045	203	1	3	H	3.5	9.2	0.0	0.00	S424	.	.	1
5	870421	1045	203	1	3	H	3.5	9.2	0.0	0.00	H124	4	3	3
5	870421	1045	203	1	3	H	3.5	9.2	0.0	0.00	H631	.	.	1
5	870421	1045	203	1	3	H	3.5	9.2	0.0	0.00	H112	4	7	1
5	870421	1045	203	1	3	H	3.5	9.2	0.0	0.00	H518	.	.	1
5	870421	1055	203	2	3	H	3.5	9.2	0.0	0.00	H118	4	7	1
5	870421	1055	203	2	3	H	3.5	9.2	0.0	0.00	S424	.	.	1
5	870421	1055	203	2	3	H	3.5	9.2	0.0	0.00	H124	4	3	11
5	870421	1055	203	2	3	H	3.5	9.2	0.0	0.00	H631	.	.	2
5	870421	1055	203	2	3	H	3.5	9.2	0.0	0.00	H112	4	7	9

CATCH DATA - FRASER RIVER
MAIN ARM 1987 - 1988

TRIP	DATE	TIME	STN	SET	HAUL	TIDE	THGHT	TEMP	SAL	CURR	SPEC	GROUP	STAGE	CATCH
5	870421	1055	203	2	3	H	3.5	9.2	0.0	0.00	H518	.	.	1
5	870421	1055	203	2	3	H	3.5	9.2	0.0	0.00	S503	.	.	2
5	870421	1055	203	2	3	H	3.5	9.2	0.0	0.00	H115	4	4	1
5	870421	1055	203	2	3	H	3.5	9.2	0.0	0.00	H118	4	3	1
5	870421	1100	203	3	3	H	3.5	9.2	0.0	0.00	H631	.	.	1
5	870421	1100	203	3	3	H	3.5	9.2	0.0	0.00	H112	4	7	1
5	870421	1630	205	1	3	L	1.2	7.8	0.2	0.00	H124	4	7	8
5	870421	1630	205	1	3	L	1.2	7.8	0.2	0.00	H112	4	7	5
5	870421	1630	205	1	3	L	1.2	7.8	0.2	0.00	H118	4	3	3
5	870421	1630	205	1	3	L	1.2	7.8	0.2	0.00	H631	.	.	3
5	870421	1630	205	1	3	L	1.2	7.8	0.2	0.00	H124	4	4	1
5	870421	1630	205	1	3	L	1.2	7.8	0.2	0.00	S823	.	.	2
5	870421	1635	205	2	3	L	1.2	7.8	0.2	0.00	H124	4	7	9
5	870421	1635	205	2	3	L	1.2	7.8	0.2	0.00	H112	4	7	3
5	870421	1635	205	2	3	L	1.2	7.8	0.2	0.00	H118	4	3	2
5	870421	1635	205	2	3	L	1.2	7.8	0.2	0.00	H631	.	.	29
5	870421	1635	205	2	3	L	1.2	7.8	0.2	0.00	S823	.	.	26
5	870421	1640	205	3	3	L	1.2	7.8	0.2	0.00	H124	4	7	5
5	870421	1640	205	3	3	L	1.2	7.8	0.2	0.00	H118	4	3	2
5	870421	1640	205	3	3	L	1.2	7.8	0.2	0.00	H631	.	.	6
5	870421	1640	205	3	3	L	1.2	7.8	0.2	0.00	S823	.	.	4
5	870421	1640	205	3	3	L	1.2	7.8	0.2	0.00	S665	.	.	1
5	870421	1720	207	1	3	L	1.2	6.9	0.0	0.43	S424	.	.	26
5	870421	1720	207	1	3	L	1.2	6.9	0.0	0.43	H124	4	7	40
5	870421	1720	207	1	3	L	1.2	6.9	0.0	0.43	H112	4	7	12
5	870421	1720	207	1	3	L	1.2	6.9	0.0	0.43	H631	.	.	1
5	870421	1720	207	1	3	L	1.2	6.9	0.0	0.43	S665	.	.	1
5	870421	1720	207	1	3	L	1.2	6.9	0.0	0.43	S036	.	.	1
5	870421	1725	207	2	3	L	1.2	6.9	0.0	0.43	S424	.	.	4
5	870421	1725	207	2	3	L	1.2	6.9	0.0	0.43	H124	4	7	15
5	870421	1725	207	2	3	L	1.2	6.9	0.0	0.43	H631	.	.	5
5	870421	1725	207	2	3	L	1.2	6.9	0.0	0.43	S665	.	.	1
5	870421	1725	207	2	3	L	1.2	6.9	0.0	0.43	S036	.	.	2
5	870421	1725	207	2	3	L	1.2	6.9	0.0	0.43	H124	4	4	1
5	870421	1725	207	2	3	L	1.2	6.9	0.0	0.43	H148	.	.	2
5	870421	1725	207	2	3	L	1.2	6.9	0.0	0.43	S823	.	.	4
5	870421	1730	207	3	3	L	1.2	6.9	0.0	0.43	S424	.	.	3
5	870421	1730	207	3	3	L	1.2	6.9	0.0	0.43	H124	4	7	6
5	870421	1730	207	3	3	L	1.2	6.9	0.0	0.43	H631	.	.	1
5	870421	1730	207	3	3	L	1.2	6.9	0.0	0.43	S665	.	.	2
5	870421	1730	207	3	3	L	1.2	6.9	0.0	0.43	H124	4	4	3
5	870421	1730	207	3	3	L	1.2	6.9	0.0	0.43	S823	.	.	1
5	870421	1800	201	1	3	L	1.2	7.3	0.0	0.34	S665	.	.	1
5	870421	1800	201	1	3	L	1.2	7.3	0.0	0.34	H124	4	7	1
5	870421	1800	201	1	3	L	1.2	7.3	0.0	0.34	H112	4	7	3

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MAIN ARM 1987 - 1988

TRIP	DATE	TIME	STN	SET	HAUL	TIDE	THGHT	TEMP	SAL	CURR	SPEC	GROUP	STAGE	CATCH
5	870421	1800	201	1	3	L	1.2	7.3	0.0	0.34	H124	4	4	1
5	870421	1800	201	1	3	L	1.2	7.3	0.0	0.34	S823	.	.	5
5	870421	1800	201	1	3	L	1.2	7.3	0.0	0.34	S424	.	.	2
5	870421	1805	201	2	3	L	1.2	7.3	0.0	0.34	S665	.	.	3
5	870421	1805	201	2	3	L	1.2	7.3	0.0	0.34	S823	.	.	2
5	870421	1805	201	2	3	L	1.2	7.3	0.0	0.34	H118	4	7	2
5	870421	1805	201	2	3	L	1.2	7.3	0.0	0.34	H631	.	.	2
5	870421	1810	201	3	3	L	1.2	7.3	0.0	0.34	H124	4	7	3
5	870421	1810	201	3	3	L	1.2	7.3	0.0	0.34	H112	4	7	1
5	870421	1810	201	3	3	L	1.2	7.3	0.0	0.34	S823	.	.	1
5	870421	1810	201	3	3	L	1.2	7.3	0.0	0.34	H631	.	.	3
5	870421	1840	203	1	3	L	1.2	.	.	.	H124	4	3	16
5	870421	1840	203	1	3	L	1.2	.	.	.	H112	4	3	10
5	870421	1840	203	1	3	L	1.2	.	.	.	H631	.	.	8
5	870421	1840	203	1	3	L	1.2	.	.	.	S665	.	.	20
5	870421	1840	203	1	3	L	1.2	.	.	.	H136	.	.	20
5	870421	1840	203	1	3	L	1.2	.	.	.	H148	.	.	6
5	870421	1840	203	1	3	L	1.2	.	.	.	H124	4	4	4
5	870421	1840	203	1	3	L	1.2	.	.	.	H134	4	7	1
5	870421	1840	203	1	3	L	1.2	.	.	.	S424	.	.	77
5	870421	1840	203	1	3	L	1.2	.	.	.	H118	4	3	3
5	870421	1840	203	1	3	L	1.2	.	.	.	H115	4	4	1
5	870421	1845	203	2	3	L	1.2	.	.	.	H124	4	3	1
5	870421	1845	203	2	3	L	1.2	.	.	.	H631	.	.	7
5	870421	1845	203	2	3	L	1.2	.	.	.	S665	.	.	9
5	870421	1845	203	2	3	L	1.2	.	.	.	H136	.	.	2
5	870421	1845	203	2	3	L	1.2	.	.	.	H148	.	.	2
5	870421	1845	203	2	3	L	1.2	.	.	.	S424	.	.	30
5	870421	1845	203	2	3	L	1.2	.	.	.	H118	4	3	3
5	870421	1845	203	2	3	L	1.2	.	.	.	H518	.	.	1
5	870421	1845	203	2	3	L	1.2	.	.	.	S823	.	.	2
5	870421	1850	203	3	3	L	1.2	.	.	.	H112	4	3	1
5	870421	1850	203	3	3	L	1.2	.	.	.	H631	.	.	2
5	870421	1850	203	3	3	L	1.2	.	.	.	S665	.	.	3
5	870421	1850	203	3	3	L	1.2	.	.	.	H136	.	.	1
5	870421	1850	203	3	3	L	1.2	.	.	.	S424	.	.	12
5	870421	1850	203	3	3	L	1.2	.	.	.	H118	4	3	1
5	870421	1850	203	3	3	L	1.2	.	.	.	H518	.	.	4
5	870421	1850	203	3	3	L	1.2	.	.	.	S823	.	.	1
6	870429	510	201	1	3	H	4.1	9.8	0.0	0.00	H124	4	3	5
6	870429	510	201	1	3	H	4.1	9.8	0.0	0.00	H112	4	7	11
6	870429	510	201	1	3	H	4.1	9.8	0.0	0.00	S665	.	.	2
6	870429	510	201	1	3	H	4.1	9.8	0.0	0.00	S424	.	.	3
6	870429	510	201	1	3	H	4.1	9.8	0.0	0.00	H118	4	7	1
6	870429	515	201	2	3	H	4.1	9.8	0.0	0.00	H124	4	3	5

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TRIP	DATE	TIME	STN	SET	HAUL	TIDE	THGHT	TEMP	SAL	CURR	SPEC	GROUP	STAGE	CATCH
6	870429	515	201	2	3	H	4.1	9.8	0.0	0.00	H124	4	4	2
6	870429	515	201	2	3	H	4.1	9.8	0.0	0.00	H112	4	7	7
6	870429	515	201	2	3	H	4.1	9.8	0.0	0.00	S665	.	.	2
6	870429	515	201	2	3	H	4.1	9.8	0.0	0.00	S424	.	.	6
6	870429	515	201	2	3	H	4.1	9.8	0.0	0.00	H118	4	7	3
6	870429	515	201	2	3	H	4.1	9.8	0.0	0.00	S823	.	.	3
6	870429	515	201	2	3	H	4.1	9.8	0.0	0.00	H124	1	7	1
6	870429	515	201	2	3	H	4.1	9.8	0.0	0.00	H304	.	.	1
6	870429	520	201	3	3	H	4.1	9.8	0.0	0.00	H124	4	3	2
6	870429	520	201	3	3	H	4.1	9.8	0.0	0.00	H124	4	4	6
6	870429	520	201	3	3	H	4.1	9.8	0.0	0.00	H112	4	7	3
6	870429	520	201	3	3	H	4.1	9.8	0.0	0.00	S665	.	.	2
6	870429	520	201	3	3	H	4.1	9.8	0.0	0.00	S424	.	.	3
6	870429	520	201	3	3	H	4.1	9.8	0.0	0.00	H118	4	7	2
6	870429	520	201	3	3	H	4.1	9.8	0.0	0.00	S823	.	.	1
6	870429	520	201	3	3	H	4.1	9.8	0.0	0.00	H304	.	.	1
6	870429	535	202	1	3	H	4.1	9.3	0.0	0.00	H124	4	3	7
6	870429	535	202	1	3	H	4.1	9.3	0.0	0.00	H124	4	4	10
6	870429	535	202	1	3	H	4.1	9.3	0.0	0.00	H112	4	7	17
6	870429	535	202	1	3	H	4.1	9.3	0.0	0.00	H124	1	7	2
6	870429	535	202	1	3	H	4.1	9.3	0.0	0.00	S665	.	.	18
6	870429	535	202	1	3	H	4.1	9.3	0.0	0.00	H118	4	7	2
6	870429	535	202	1	3	H	4.1	9.3	0.0	0.00	H148	.	.	2
6	870429	535	202	1	3	H	4.1	9.3	0.0	0.00	S424	.	.	1
6	870429	542	202	2	3	H	4.1	9.3	0.0	0.00	H124	4	3	4
6	870429	542	202	2	3	H	4.1	9.3	0.0	0.00	H124	4	4	9
6	870429	542	202	2	3	H	4.1	9.3	0.0	0.00	H112	4	7	8
6	870429	542	202	2	3	H	4.1	9.3	0.0	0.00	S665	.	.	12
6	870429	542	202	2	3	H	4.1	9.3	0.0	0.00	H118	4	7	1
6	870429	542	202	2	3	H	4.1	9.3	0.0	0.00	S424	.	.	1
6	870429	547	202	3	3	H	4.1	9.3	0.0	0.00	H124	4	3	1
6	870429	547	202	3	3	H	4.1	9.3	0.0	0.00	H124	4	4	7
6	870429	547	202	3	3	H	4.1	9.3	0.0	0.00	H112	4	7	6
6	870429	547	202	3	3	H	4.1	9.3	0.0	0.00	S665	.	.	4
6	870429	547	202	3	3	H	4.1	9.3	0.0	0.00	H118	4	7	1
6	870429	547	202	3	3	H	4.1	9.3	0.0	0.00	H148	.	.	1
6	870429	547	202	3	3	H	4.1	9.3	0.0	0.00	S424	.	.	2
6	870429	547	202	3	3	H	4.1	9.3	0.0	0.00	S503	.	.	1
6	870429	547	202	3	3	H	4.1	9.3	0.0	0.00	H128	4	7	1
6	870429	600	203	1	3	H	4.1	9.4	0.0	0.00	H124	4	3	19
6	870429	600	203	1	3	H	4.1	9.4	0.0	0.00	H124	4	4	1
6	870429	600	203	1	3	H	4.1	9.4	0.0	0.00	H112	4	7	2
6	870429	600	203	1	3	H	4.1	9.4	0.0	0.00	S424	.	.	1
6	870429	600	203	1	3	H	4.1	9.4	0.0	0.00	S503	.	.	1
6	870429	600	203	1	3	H	4.1	9.4	0.0	0.00	H304	.	.	1

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TRIP	DATE	TIME	STN	SET	HAUL	TIDE	THGHT	TEMP	SAL	CURR	SPEC	GROUP	STAGE	CATCH
6	870429	605	203	2	3	H	4.1	9.4	0.0	0.00	H124	4	3	7
6	870429	605	203	2	3	H	4.1	9.4	0.0	0.00	H124	4	4	1
6	870429	605	203	2	3	H	4.1	9.4	0.0	0.00	H112	4	7	2
6	870429	605	203	2	3	H	4.1	9.4	0.0	0.00	H118	4	3	2
6	870429	605	203	2	3	H	4.1	9.4	0.0	0.00	H631	.	.	6
6	870429	605	203	2	3	H	4.1	9.4	0.0	0.00	S665	.	.	1
6	870429	605	203	2	3	H	4.1	9.4	0.0	0.00	S823	.	.	1
6	870429	610	203	3	3	H	4.1	9.4	0.0	0.00	H124	4	3	2
6	870429	610	203	3	3	H	4.1	9.4	0.0	0.00	H124	4	4	1
6	870429	610	203	3	3	H	4.1	9.4	0.0	0.00	H112	4	7	1
6	870429	610	203	3	3	H	4.1	9.4	0.0	0.00	S424	.	.	2
6	870429	630	204	1	3	H	4.1	9.5	0.0	0.90	H124	4	3	53
6	870429	630	204	1	3	H	4.1	9.5	0.0	0.90	H124	4	4	8
6	870429	630	204	1	3	H	4.1	9.5	0.0	0.90	H124	1	7	2
6	870429	630	204	1	3	H	4.1	9.5	0.0	0.90	H112	4	7	55
6	870429	630	204	1	3	H	4.1	9.5	0.0	0.90	H118	4	7	2
6	870429	630	204	1	3	H	4.1	9.5	0.0	0.90	S665	.	.	7
6	870429	630	204	1	3	H	4.1	9.5	0.0	0.90	S424	.	.	2
6	870429	630	204	1	3	H	4.1	9.5	0.0	0.90	H631	.	.	1
6	870429	630	204	1	3	H	4.1	9.5	0.0	0.90	H148	.	.	1
6	870429	630	204	1	3	H	4.1	9.5	0.0	0.90	H136	.	.	2
6	870429	630	204	1	3	H	4.1	9.5	0.0	0.90	H118	4	7	1
6	870429	635	204	2	3	H	4.1	9.5	0.0	0.90	H124	4	3	22
6	870429	635	204	2	3	H	4.1	9.5	0.0	0.90	H124	4	4	19
6	870429	635	204	2	3	H	4.1	9.5	0.0	0.90	H112	4	7	10
6	870429	635	204	2	3	H	4.1	9.5	0.0	0.90	S665	.	.	4
6	870429	645	204	3	3	H	4.1	9.5	0.0	0.90	H124	4	3	34
6	870429	645	204	3	3	H	4.1	9.5	0.0	0.90	H124	4	4	5
6	870429	645	204	3	3	H	4.1	9.5	0.0	0.90	H112	4	7	27
6	870429	645	204	3	3	H	4.1	9.5	0.0	0.90	S665	.	.	7
6	870429	645	204	3	3	H	4.1	9.5	0.0	0.90	S424	.	.	1
6	870429	645	204	3	3	H	4.1	9.5	0.0	0.90	H115	4	4	1
6	870429	645	204	3	3	H	4.1	9.5	0.0	0.90	H518	.	.	1
7	870511	905	201	1	3	L	1.2	11.0	0.0	0.27	H128	4	7	1
7	870511	905	201	1	3	L	1.2	11.0	0.0	0.27	H124	4	3	15
7	870511	905	201	1	3	L	1.2	11.0	0.0	0.27	H124	4	4	20
7	870511	905	201	1	3	L	1.2	11.0	0.0	0.27	H115	4	4	10
7	870511	905	201	1	3	L	1.2	11.0	0.0	0.27	H112	4	7	2
7	870511	905	201	1	3	L	1.2	11.0	0.0	0.27	S424	.	.	13
7	870511	905	201	1	3	L	1.2	11.0	0.0	0.27	S823	.	.	32
7	870511	905	201	1	3	L	1.2	11.0	0.0	0.27	H631	.	.	16
7	870511	905	201	1	3	L	1.2	11.0	0.0	0.27	S665	.	.	13
7	870511	905	201	1	3	L	1.2	11.0	0.0	0.27	H118	4	7	4
7	870511	905	201	1	3	L	1.2	11.0	0.0	0.27	H143	.	.	1
7	870511	905	201	1	3	L	1.2	11.0	0.0	0.27	H136	.	.	1

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7	870511	905	201	1	3	L	1.2	11.0	0.0	0.27	S487	.	.	3
7	870511	905	201	1	3	L	1.2	11.0	0.0	0.27	H518	.	.	1
7	870511	915	201	2	3	L	1.2	11.0	0.0	0.27	H128	4	7	1
7	870511	915	201	2	3	L	1.2	11.0	0.0	0.27	H124	4	3	16
7	870511	915	201	2	3	L	1.2	11.0	0.0	0.27	H124	4	4	31
7	870511	915	201	2	3	L	1.2	11.0	0.0	0.27	H112	4	7	1
7	870511	915	201	2	3	L	1.2	11.0	0.0	0.27	S424	.	.	14
7	870511	915	201	2	3	L	1.2	11.0	0.0	0.27	S823	.	.	10
7	870511	915	201	2	3	L	1.2	11.0	0.0	0.27	H631	.	.	15
7	870511	915	201	2	3	L	1.2	11.0	0.0	0.27	S665	.	.	10
7	870511	915	201	2	3	L	1.2	11.0	0.0	0.27	H118	4	7	8
7	870511	915	201	2	3	L	1.2	11.0	0.0	0.27	S487	.	.	1
7	870511	915	201	2	3	L	1.2	11.0	0.0	0.27	S503	.	.	1
7	870511	930	201	3	3	L	1.2	11.0	0.0	0.27	H124	4	3	8
7	870511	930	201	3	3	L	1.2	11.0	0.0	0.27	H124	4	4	13
7	870511	930	201	3	3	L	1.2	11.0	0.0	0.27	H124	1	7	1
7	870511	930	201	3	3	L	1.2	11.0	0.0	0.27	H112	4	7	1
7	870511	930	201	3	3	L	1.2	11.0	0.0	0.27	S424	.	.	6
7	870511	930	201	3	3	L	1.2	11.0	0.0	0.27	S823	.	.	7
7	870511	930	201	3	3	L	1.2	11.0	0.0	0.27	H631	.	.	5
7	870511	930	201	3	3	L	1.2	11.0	0.0	0.27	S665	.	.	2
7	870511	930	201	3	3	L	1.2	11.0	0.0	0.27	H118	4	7	2
7	870511	930	201	3	3	L	1.2	11.0	0.0	0.27	S487	.	.	1
7	870511	930	201	3	3	L	1.2	11.0	0.0	0.27	H134	4	7	1
7	870511	1045	202	1	2	L	1.2	11.0	0.0	0.36	H124	4	3	2
7	870511	1045	202	1	2	L	1.2	11.0	0.0	0.36	H124	4	4	2
7	870511	1045	202	1	2	L	1.2	11.0	0.0	0.36	H112	4	7	1
7	870511	1045	202	1	2	L	1.2	11.0	0.0	0.36	S424	.	.	10
7	870511	1045	202	1	2	L	1.2	11.0	0.0	0.36	S665	.	.	1
7	870511	1045	202	1	2	L	1.2	11.0	0.0	0.36	S823	.	.	6
7	870511	1045	202	1	2	L	1.2	11.0	0.0	0.36	S487	.	.	7
7	870511	1120	202	2	2	L	1.2	11.0	0.0	0.36	H124	4	3	1
7	870511	1120	202	2	2	L	1.2	11.0	0.0	0.36	H124	4	4	5
7	870511	1120	202	2	2	L	1.2	11.0	0.0	0.36	H118	4	4	1
7	870511	1120	202	2	2	L	1.2	11.0	0.0	0.36	H112	4	7	3
7	870511	1120	202	2	2	L	1.2	11.0	0.0	0.36	S424	.	.	5
7	870511	1120	202	2	2	L	1.2	11.0	0.0	0.36	S665	.	.	15
7	870511	1120	202	2	2	L	1.2	11.0	0.0	0.36	S823	.	.	31
7	870511	1120	202	2	2	L	1.2	11.0	0.0	0.36	H143	.	.	1
7	870511	1120	202	2	2	L	1.2	11.0	0.0	0.36	S036	.	.	1
7	870511	1620	201	1	3	H	4.1	11.9	0.2	0.18	S487	.	.	2
7	870511	1620	201	1	3	H	4.1	11.9	0.2	0.18	H124	4	4	6
7	870511	1620	201	1	3	H	4.1	11.9	0.2	0.18	H115	4	4	2
7	870511	1620	201	1	3	H	4.1	11.9	0.2	0.18	H148	.	.	3
7	870511	1620	201	1	3	H	4.1	11.9	0.2	0.18	H631	.	.	1

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7	870511	1620	201	1	3	H	4.1	11.9	0.2	0.18	S665	.	.	1
7	870511	1620	201	1	3	H	4.1	11.9	0.2	0.18	S424	.	.	2
7	870511	1620	201	1	3	H	4.1	11.9	0.2	0.18	H124	1	7	1
7	870511	1620	201	1	3	H	4.1	11.9	0.2	0.18	H112	4	7	1
7	870511	1625	201	2	3	H	4.1	11.9	0.2	0.18	S487	.	.	3
7	870511	1625	201	2	3	H	4.1	11.9	0.2	0.18	H124	4	4	2
7	870511	1625	201	2	3	H	4.1	11.9	0.2	0.18	H124	4	3	1
7	870511	1625	201	2	3	H	4.1	11.9	0.2	0.18	H148	.	.	6
7	870511	1625	201	2	3	H	4.1	11.9	0.2	0.18	S665	.	.	4
7	870511	1625	201	2	3	H	4.1	11.9	0.2	0.18	S424	.	.	7
7	870511	1625	201	2	3	H	4.1	11.9	0.2	0.18	H112	4	7	1
7	870511	1625	201	2	3	H	4.1	11.9	0.2	0.18	H118	4	3	4
7	870511	1625	201	2	3	H	4.1	11.9	0.2	0.18	S503	.	.	1
7	870511	1625	201	2	3	H	4.1	11.9	0.2	0.18	S823	.	.	1
7	870511	1640	201	3	3	H	4.1	11.9	0.2	0.18	H124	4	4	4
7	870511	1640	201	3	3	H	4.1	11.9	0.2	0.18	H124	4	3	1
7	870511	1640	201	3	3	H	4.1	11.9	0.2	0.18	S665	.	.	1
7	870511	1640	201	3	3	H	4.1	11.9	0.2	0.18	S424	.	.	1
7	870511	1640	201	3	3	H	4.1	11.9	0.2	0.18	H112	4	7	1
7	870511	1640	201	3	3	H	4.1	11.9	0.2	0.18	S503	.	.	1
7	870511	1640	201	3	3	H	4.1	11.9	0.2	0.18	S823	.	.	3
7	870511	1640	201	3	3	H	4.1	11.9	0.2	0.18	H128	4	7	1
7	870511	1700	202	1	3	H	4.1	11.4	0.0	0.00		.	.	0
7	870511	1715	202	2	3	H	4.1	11.4	0.0	0.00	S823	.	.	3
7	870511	1715	202	2	3	H	4.1	11.4	0.0	0.00	S665	.	.	1
7	870511	1715	202	2	3	H	4.1	11.4	0.0	0.00	H124	4	3	1
7	870511	1715	202	2	3	H	4.1	11.4	0.0	0.00	S424	.	.	1
7	870511	1720	202	3	3	H	4.1	11.4	0.0	0.00	H148	.	.	3
7	870511	1720	202	3	3	H	4.1	11.4	0.0	0.00	H115	1	4	1
7	870511	1720	202	3	3	H	4.1	11.4	0.0	0.00	H124	4	3	1
7	870511	1740	203	1	3	H	4.1	11.4	0.0	0.00	H134	4	6	1
7	870511	1740	203	1	3	H	4.1	11.4	0.0	0.00	S424	.	.	3
7	870511	1740	203	1	3	H	4.1	11.4	0.0	0.00	H124	4	4	3
7	870511	1740	203	1	3	H	4.1	11.4	0.0	0.00	H115	4	4	3
7	870511	1740	203	1	3	H	4.1	11.4	0.0	0.00	H118	4	3	19
7	870511	1740	203	1	3	H	4.1	11.4	0.0	0.00	S487	.	.	3
7	870511	1740	203	1	3	H	4.1	11.4	0.0	0.00	H124	4	3	8
7	870511	1740	203	1	3	H	4.1	11.4	0.0	0.00	S665	.	.	2
7	870511	1740	203	1	3	H	4.1	11.4	0.0	0.00	S823	.	.	2
7	870511	1750	203	2	3	H	4.1	11.4	0.0	0.00	S424	.	.	7
7	870511	1750	203	2	3	H	4.1	11.4	0.0	0.00	H124	4	4	4
7	870511	1750	203	2	3	H	4.1	11.4	0.0	0.00	H118	4	3	4
7	870511	1750	203	2	3	H	4.1	11.4	0.0	0.00	S487	.	.	1
7	870511	1750	203	2	3	H	4.1	11.4	0.0	0.00	H124	4	3	5
7	870511	1750	203	2	3	H	4.1	11.4	0.0	0.00	H128	4	7	1

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TRIP	DATE	TIME	STN	SET	HAUL	TIDE	THGHT	TEMP	SAL	CURR	SPEC	GROUP	STAGE	CATCH
7	870511	1750	203	2	3	H	4.1	11.4	0.0	0.00	H143	.	.	2
7	870511	1750	203	2	3	H	4.1	11.4	0.0	0.00	H631	.	.	3
7	870511	1750	203	2	3	H	4.1	11.4	0.0	0.00	H148	.	.	1
7	870511	1750	203	2	3	H	4.1	11.4	0.0	0.00	S503	.	.	1
7	870511	1805	203	3	3	H	4.1	11.4	0.0	0.00	S424	.	.	4
7	870511	1805	203	3	3	H	4.1	11.4	0.0	0.00	H124	4	4	2
7	870511	1805	203	3	3	H	4.1	11.4	0.0	0.00	H118	4	7	6
7	870511	1805	203	3	3	H	4.1	11.4	0.0	0.00	S487	.	.	1
7	870511	1805	203	3	3	H	4.1	11.4	0.0	0.00	H124	4	3	2
7	870511	1805	203	3	3	H	4.1	11.4	0.0	0.00	S665	.	.	2
7	870511	1805	203	3	3	H	4.1	11.4	0.0	0.00	S823	.	.	2
7	870511	1805	203	3	3	H	4.1	11.4	0.0	0.00	H631	.	.	4
7	870511	1805	203	3	3	H	4.1	11.4	0.0	0.00	H148	.	.	1
7	870511	1825	204	1	3	H	4.1	11.5	0.0	0.12	H631	.	.	2
7	870511	1825	204	1	3	H	4.1	11.5	0.0	0.12	H148	.	.	15
7	870511	1825	204	1	3	H	4.1	11.5	0.0	0.12	H124	4	4	18
7	870511	1825	204	1	3	H	4.1	11.5	0.0	0.12	H124	4	3	6
7	870511	1825	204	1	3	H	4.1	11.5	0.0	0.12	H112	4	7	2
7	870511	1825	204	1	3	H	4.1	11.5	0.0	0.12	H124	1	7	4
7	870511	1825	204	1	3	H	4.1	11.5	0.0	0.12	S503	.	.	1
7	870511	1825	204	1	3	H	4.1	11.5	0.0	0.12	H118	4	4	3
7	870511	1825	204	1	3	H	4.1	11.5	0.0	0.12	S487	.	.	1
7	870511	1825	204	1	3	H	4.1	11.5	0.0	0.12	S665	.	.	10
7	870511	1825	204	1	3	H	4.1	11.5	0.0	0.12	S424	.	.	2
7	870511	1825	204	1	3	H	4.1	11.5	0.0	0.12	S823	.	.	5
7	870511	1825	204	1	3	H	4.1	11.5	0.0	0.12	H146	.	.	2
7	870511	1835	204	2	3	H	4.1	11.5	0.0	0.12	H631	.	.	3
7	870511	1835	204	2	3	H	4.1	11.5	0.0	0.12	H148	.	.	1
7	870511	1835	204	2	3	H	4.1	11.5	0.0	0.12	H124	4	4	28
7	870511	1835	204	2	3	H	4.1	11.5	0.0	0.12	H124	4	3	4
7	870511	1835	204	2	3	H	4.1	11.5	0.0	0.12	H124	1	7	5
7	870511	1835	204	2	3	H	4.1	11.5	0.0	0.12	H118	4	4	6
7	870511	1835	204	2	3	H	4.1	11.5	0.0	0.12	S665	.	.	382
7	870511	1835	204	2	3	H	4.1	11.5	0.0	0.12	S823	.	.	7
7	870511	1835	204	2	3	H	4.1	11.5	0.0	0.12	H146	.	.	1
7	870511	1835	204	2	3	H	4.1	11.5	0.0	0.12	S291	.	.	1
7	870511	1850	204	3	3	H	4.1	11.5	0.0	0.12	H631	.	.	10
7	870511	1850	204	3	3	H	4.1	11.5	0.0	0.12	H148	.	.	12
7	870511	1850	204	3	3	H	4.1	11.5	0.0	0.12	H124	4	4	5
7	870511	1850	204	3	3	H	4.1	11.5	0.0	0.12	H124	4	3	5
7	870511	1850	204	3	3	H	4.1	11.5	0.0	0.12	H112	4	7	2
7	870511	1850	204	3	3	H	4.1	11.5	0.0	0.12	H124	1	7	1
7	870511	1850	204	3	3	H	4.1	11.5	0.0	0.12	H118	4	3	1
7	870511	1850	204	3	3	H	4.1	11.5	0.0	0.12	S665	.	.	163
7	870511	1850	204	3	3	H	4.1	11.5	0.0	0.12	S424	.	.	3

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TRIP	DATE	TIME	STN	SET	HAUL	TIDE	THGHT	TEMP	SAL	CURR	SPEC	GROUP	STAGE	CATCH
7	870511	1850	204	3	3	H	4.1	11.5	0.0	0.12	S823	.	.	6
7	870511	1850	204	3	3	H	4.1	11.5	0.0	0.12	H146	.	.	1
7	870513	1200	203	1	3	L	0.4	11.8	0.0	0.15	S487	.	.	39
7	870513	1200	203	1	3	L	0.4	11.8	0.0	0.15	S523	.	.	2
7	870513	1200	203	1	3	L	0.4	11.8	0.0	0.15	S665	.	.	344
7	870513	1200	203	1	3	L	0.4	11.8	0.0	0.15	S424	.	.	17
7	870513	1200	203	1	3	L	0.4	11.8	0.0	0.15	H124	4	3	24
7	870513	1200	203	1	3	L	0.4	11.8	0.0	0.15	H143	.	.	35
7	870513	1200	203	1	3	L	0.4	11.8	0.0	0.15	H124	4	4	4
7	870513	1200	203	1	3	L	0.4	11.8	0.0	0.15	H115	4	4	2
7	870513	1200	203	1	3	L	0.4	11.8	0.0	0.15	S823	.	.	25
7	870513	1200	203	1	3	L	0.4	11.8	0.0	0.15	H118	4	7	24
7	870513	1200	203	1	3	L	0.4	11.8	0.0	0.15	H631	.	.	28
7	870513	1200	203	1	3	L	0.4	11.8	0.0	0.15	H118	4	3	1
7	870513	1200	203	1	3	L	0.4	11.8	0.0	0.15	H128	4	7	1
7	870513	1200	203	1	3	L	0.4	11.8	0.0	0.15	S503	.	.	1
7	870513	1200	203	1	3	L	0.4	11.8	0.0	0.15	H148	.	.	11
7	870513	1210	203	2	3	L	0.4	11.8	0.0	0.15	S487	.	.	2
7	870513	1210	203	2	3	L	0.4	11.8	0.0	0.15	S665	.	.	63
7	870513	1210	203	2	3	L	0.4	11.8	0.0	0.15	S424	.	.	3
7	870513	1210	203	2	3	L	0.4	11.8	0.0	0.15	H124	4	3	4
7	870513	1210	203	2	3	L	0.4	11.8	0.0	0.15	H143	.	.	8
7	870513	1210	203	2	3	L	0.4	11.8	0.0	0.15	H124	1	4	2
7	870513	1210	203	2	3	L	0.4	11.8	0.0	0.15	S823	.	.	4
7	870513	1210	203	2	3	L	0.4	11.8	0.0	0.15	H118	4	7	8
7	870513	1210	203	2	3	L	0.4	11.8	0.0	0.15	H631	.	.	2
7	870513	1210	203	2	3	L	0.4	11.8	0.0	0.15	H148	.	.	3
7	870513	1210	203	2	3	L	0.4	11.8	0.0	0.15	S589	.	.	1
7	870513	1220	203	3	3	L	0.4	11.8	0.0	0.15	S665	.	.	44
7	870513	1220	203	3	3	L	0.4	11.8	0.0	0.15	S424	.	.	4
7	870513	1220	203	3	3	L	0.4	11.8	0.0	0.15	H124	4	3	19
7	870513	1220	203	3	3	L	0.4	11.8	0.0	0.15	H143	.	.	3
7	870513	1220	203	3	3	L	0.4	11.8	0.0	0.15	H124	4	4	2
7	870513	1220	203	3	3	L	0.4	11.8	0.0	0.15	S823	.	.	3
7	870513	1220	203	3	3	L	0.4	11.8	0.0	0.15	H118	4	7	4
7	870513	1220	203	3	3	L	0.4	11.8	0.0	0.15	H631	.	.	1
7	870513	1220	203	3	3	L	0.4	11.8	0.0	0.15	H148	.	.	3
7	870513	1240	204	1	2	L	0.4	12.8	0.0	0.14	H124	4	4	13
7	870513	1240	204	1	2	L	0.4	12.8	0.0	0.14	H115	4	4	3
7	870513	1240	204	1	2	L	0.4	12.8	0.0	0.14	H118	4	4	2
7	870513	1240	204	1	2	L	0.4	12.8	0.0	0.14	H124	4	3	6
7	870513	1240	204	1	2	L	0.4	12.8	0.0	0.14	H631	.	.	54
7	870513	1240	204	1	2	L	0.4	12.8	0.0	0.14	S665	.	.	2
7	870513	1240	204	1	2	L	0.4	12.8	0.0	0.14	S424	.	.	3
7	870513	1240	204	1	2	L	0.4	12.8	0.0	0.14	S823	.	.	25

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TRIP	DATE	TIME	STN	SET	HAUL	TIDE	THGHT	TEMP	SAL	CURR	SPEC	GROUP	STAGE	CATCH
7	870513	1240	204	1	2	L	0.4	12.8	0.0	0.14	H124	1	7	7
7	870513	1240	204	1	2	L	0.4	12.8	0.0	0.14	S487	.	.	2
7	870513	1240	204	1	2	L	0.4	12.8	0.0	0.14	H143	.	.	1
7	870513	1300	204	2	2	L	0.4	12.8	0.0	0.14	H124	4	4	5
7	870513	1300	204	2	2	L	0.4	12.8	0.0	0.14	H124	4	3	1
7	870513	1300	204	2	2	L	0.4	12.8	0.0	0.14	S036	.	.	1
7	870513	1300	204	2	2	L	0.4	12.8	0.0	0.14	H148	.	.	1
7	870513	1300	204	2	2	L	0.4	12.8	0.0	0.14	H118	4	3	1
7	870513	1300	204	2	2	L	0.4	12.8	0.0	0.14	H631	.	.	1
7	870513	1300	204	2	2	L	0.4	12.8	0.0	0.14	S665	.	.	1
7	870513	1300	204	2	2	L	0.4	12.8	0.0	0.14	S424	.	.	1
7	870513	1300	204	2	2	L	0.4	12.8	0.0	0.14	S823	.	.	2
8	870525	1005	201	1	3	L	1.0	12.9	0.0	0.02	H124	4	3	2
8	870525	1005	201	1	3	L	1.0	12.9	0.0	0.02	H124	4	4	8
8	870525	1005	201	1	3	L	1.0	12.9	0.0	0.02	S424	.	.	3
8	870525	1005	201	1	3	L	1.0	12.9	0.0	0.02	S503	.	.	2
8	870525	1005	201	1	3	L	1.0	12.9	0.0	0.02	H115	4	4	5
8	870525	1005	201	1	3	L	1.0	12.9	0.0	0.02	H115	1	7	1
8	870525	1005	201	1	3	L	1.0	12.9	0.0	0.02	H631	.	.	25
8	870525	1005	201	1	3	L	1.0	12.9	0.0	0.02	S523	.	.	3
8	870525	1005	201	1	3	L	1.0	12.9	0.0	0.02	S487	.	.	1
8	870525	1005	201	1	3	L	1.0	12.9	0.0	0.02	S823	.	.	12
8	870525	1005	201	1	3	L	1.0	12.9	0.0	0.02	S665	.	.	1
8	870525	1010	201	2	3	L	1.0	12.9	0.0	0.02	H124	4	3	2
8	870525	1010	201	2	3	L	1.0	12.9	0.0	0.02	H124	4	4	3
8	870525	1010	201	2	3	L	1.0	12.9	0.0	0.02	S503	.	.	1
8	870525	1010	201	2	3	L	1.0	12.9	0.0	0.02	H112	4	7	1
8	870525	1010	201	2	3	L	1.0	12.9	0.0	0.02	H631	.	.	9
8	870525	1010	201	2	3	L	1.0	12.9	0.0	0.02	S823	.	.	35
8	870525	1010	201	2	3	L	1.0	12.9	0.0	0.02	S665	.	.	2
8	870525	1010	201	2	3	L	1.0	12.9	0.0	0.02	H124	1	7	1
8	870525	1015	201	3	3	L	1.0	12.9	0.0	0.02	H124	4	3	1
8	870525	1015	201	3	3	L	1.0	12.9	0.0	0.02	S424	.	.	1
8	870525	1015	201	3	3	L	1.0	12.9	0.0	0.02	H115	4	4	1
8	870525	1015	201	3	3	L	1.0	12.9	0.0	0.02	H631	.	.	1
8	870525	1015	201	3	3	L	1.0	12.9	0.0	0.02	S523	.	.	1
8	870525	1015	201	3	3	L	1.0	12.9	0.0	0.02	S823	.	.	12
8	870525	1015	201	3	3	L	1.0	12.9	0.0	0.02	H118	4	3	3
8	870525	1040	202	1	3	L	1.0	13.1	0.0	.	S503	.	.	1
8	870525	1040	202	1	3	L	1.0	13.1	0.0	.	H124	4	3	1
8	870525	1040	202	1	3	L	1.0	13.1	0.0	.	H124	4	4	8
8	870525	1040	202	1	3	L	1.0	13.1	0.0	.	S424	.	.	1
8	870525	1040	202	1	3	L	1.0	13.1	0.0	.	H631	.	.	15
8	870525	1040	202	1	3	L	1.0	13.1	0.0	.	S823	.	.	82
8	870525	1040	202	1	3	L	1.0	13.1	0.0	.	S665	.	.	5

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8	870525	1040	202	1	3	L	1.0	13.1	0.0	.	S487	.	.	3
8	870525	1050	202	2	3	L	1.0	13.1	0.0	.	H124	4	3	1
8	870525	1050	202	2	3	L	1.0	13.1	0.0	.	H124	4	4	5
8	870525	1050	202	2	3	L	1.0	13.1	0.0	.	S424	.	.	4
8	870525	1050	202	2	3	L	1.0	13.1	0.0	.	H631	.	.	2
8	870525	1050	202	2	3	L	1.0	13.1	0.0	.	S823	.	.	27
8	870525	1050	202	2	3	L	1.0	13.1	0.0	.	S665	.	.	2
8	870525	1050	202	2	3	L	1.0	13.1	0.0	.	H143	.	.	1
8	870525	1050	202	2	3	L	1.0	13.1	0.0	.	H115	4	4	1
8	870525	1100	202	3	3	L	1.0	13.1	0.0	.	S823	.	.	18
8	870525	1100	202	3	3	L	1.0	13.1	0.0	.	H124	1	7	1
8	870525	1120	203	1	3	L	1.0	13.3	0.0	0.00	S036	.	.	1
8	870525	1120	203	1	3	L	1.0	13.3	0.0	0.00	S424	.	.	5
8	870525	1120	203	1	3	L	1.0	13.3	0.0	0.00	H631	.	.	12
8	870525	1120	203	1	3	L	1.0	13.3	0.0	0.00	S665	.	.	3
8	870525	1120	203	1	3	L	1.0	13.3	0.0	0.00	H124	4	3	24
8	870525	1120	203	1	3	L	1.0	13.3	0.0	0.00	H124	4	4	5
8	870525	1120	203	1	3	L	1.0	13.3	0.0	0.00	S823	.	.	4
8	870525	1120	203	1	3	L	1.0	13.3	0.0	0.00	S503	.	.	3
8	870525	1120	203	1	3	L	1.0	13.3	0.0	0.00	H143	.	.	2
8	870525	1120	203	1	3	L	1.0	13.3	0.0	0.00	H118	4	3	10
8	870525	1130	203	2	3	L	1.0	13.3	0.0	0.00	S424	.	.	1
8	870525	1130	203	2	3	L	1.0	13.3	0.0	0.00	H124	4	3	2
8	870525	1130	203	2	3	L	1.0	13.3	0.0	0.00	H124	4	4	4
8	870525	1130	203	2	3	L	1.0	13.3	0.0	0.00	S823	.	.	1
8	870525	1140	203	3	3	L	1.0	13.3	0.0	0.00	S665	.	.	6
8	870525	1140	203	3	3	L	1.0	13.3	0.0	0.00	H124	4	3	1
8	870525	1140	203	3	3	L	1.0	13.3	0.0	0.00	S823	.	.	3
8	870525	1230	204	1	1	L	1.0	13.4	0.0	0.20	H631	.	.	1
8	870525	1230	204	1	1	L	1.0	13.4	0.0	0.20	S823	.	.	1
8	870525	1230	204	1	1	L	1.0	13.4	0.0	0.20	H124	4	4	1
8	870525	1610	201	1	3	H	4.2	13.3	0.0	0.00	H124	4	4	8
8	870525	1610	201	1	3	H	4.2	13.3	0.0	0.00	H631	.	.	1
8	870525	1610	201	1	3	H	4.2	13.3	0.0	0.00	S823	.	.	3
8	870525	1610	201	1	3	H	4.2	13.3	0.0	0.00	H115	4	4	1
8	870525	1610	201	1	3	H	4.2	13.3	0.0	0.00	H124	1	7	1
8	870525	1610	201	1	3	H	4.2	13.3	0.0	0.00	H115	1	7	1
8	870525	1615	201	2	3	H	4.2	13.3	0.0	0.00	S424	.	.	1
8	870525	1615	201	2	3	H	4.2	13.3	0.0	0.00	H115	4	4	4
8	870525	1615	201	2	3	H	4.2	13.3	0.0	0.00	H115	1	7	1
8	870525	1620	201	3	3	H	4.2	13.3	0.0	0.00	H124	4	3	1
8	870525	1620	201	3	3	H	4.2	13.3	0.0	0.00	H112	4	3	1
8	870525	1620	201	3	3	H	4.2	13.3	0.0	0.00	S823	.	.	1
8	870525	1620	201	3	3	H	4.2	13.3	0.0	0.00	S503	.	.	2
8	870525	1640	202	1	3	H	4.2	13.8	0.0	0.00	H124	1	7	1

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TRIP	DATE	TIME	STN	SET	HAUL	TIDE	THGHT	TEMP	SAL	CURR	SPEC	GROUP	STAGE	CATCH
8	870525	1640	202	1	3	H	4.2	13.8	0.0	0.00	H124	4	4	4
8	870525	1640	202	1	3	H	4.2	13.8	0.0	0.00	H112	4	3	2
8	870525	1640	202	1	3	H	4.2	13.8	0.0	0.00	H148	.	.	1
8	870525	1650	202	2	3	H	4.2	13.8	0.0	0.00	H115	4	7	1
8	870525	1650	202	2	3	H	4.2	13.8	0.0	0.00	H124	4	4	1
8	870525	1650	202	2	3	H	4.2	13.8	0.0	0.00	S665	.	.	1
8	870525	1655	202	3	3	H	4.2	13.8	0.0	0.00		.	.	0
8	870525	1705	203	1	3	H	4.2	13.8	0.0	0.00	H124	4	4	2
8	870525	1705	203	1	3	H	4.2	13.8	0.0	0.00	H124	4	3	4
8	870525	1705	203	1	3	H	4.2	13.8	0.0	0.00	S424	.	.	3
8	870525	1705	203	1	3	H	4.2	13.8	0.0	0.00	H631	.	.	1
8	870525	1705	203	1	3	H	4.2	13.8	0.0	0.00	S487	.	.	1
8	870525	1710	203	2	3	H	4.2	13.8	0.0	0.00	H124	4	3	1
8	870525	1710	203	2	3	H	4.2	13.8	0.0	0.00	H115	4	4	2
8	870525	1710	203	2	3	H	4.2	13.8	0.0	0.00	S424	.	.	1
8	870525	1710	203	2	3	H	4.2	13.8	0.0	0.00	H631	.	.	1
8	870525	1710	203	2	3	H	4.2	13.8	0.0	0.00	S487	.	.	1
8	870525	1710	203	2	3	H	4.2	13.8	0.0	0.00	S823	.	.	1
8	870525	1715	203	3	3	H	4.2	13.8	0.0	0.00	H124	4	4	2
8	870525	1715	203	3	3	H	4.2	13.8	0.0	0.00	S424	.	.	6
8	870525	1715	203	3	3	H	4.2	13.8	0.0	0.00	H631	.	.	2
8	870525	1725	204	1	3	H	4.2	13.2	0.0	0.00	H124	4	4	5
8	870525	1725	204	1	3	H	4.2	13.2	0.0	0.00	S424	.	.	1
8	870525	1725	204	1	3	H	4.2	13.2	0.0	0.00	S665	.	.	1
8	870525	1725	204	1	3	H	4.2	13.2	0.0	0.00	H128	4	4	1
8	870525	1725	204	1	3	H	4.2	13.2	0.0	0.00	H115	4	4	2
8	870525	1730	204	2	3	H	4.2	13.2	0.0	0.00	H124	4	4	3
8	870525	1730	204	2	3	H	4.2	13.2	0.0	0.00	H124	4	3	2
8	870525	1730	204	2	3	H	4.2	13.2	0.0	0.00	S665	.	.	1
8	870525	1730	204	2	3	H	4.2	13.2	0.0	0.00	H631	.	.	2
8	870525	1730	204	2	3	H	4.2	13.2	0.0	0.00	H124	1	7	1
8	870525	1735	204	3	3	H	4.2	13.2	0.0	0.00	H124	4	4	1
8	870525	1735	204	3	3	H	4.2	13.2	0.0	0.00	S424	.	.	11
8	870525	1735	204	3	3	H	4.2	13.2	0.0	0.00	S665	.	.	3
8	870525	1735	204	3	3	H	4.2	13.2	0.0	0.00	H115	4	4	1
8	870525	1735	204	3	3	H	4.2	13.2	0.0	0.00	H124	1	7	1
8	870525	1735	204	3	3	H	4.2	13.2	0.0	0.00	H112	4	3	2
9	870608	915	201	1	3	L	1.2	.	.	.	H124	4	3	2
9	870608	915	201	1	3	L	1.2	.	.	.	H631	.	.	10
9	870608	915	201	1	3	L	1.2	.	.	.	S823	.	.	10
9	870608	915	201	1	3	L	1.2	.	.	.	S665	.	.	1
9	870608	915	201	1	3	L	1.2	.	.	.	S503	.	.	1
9	870608	915	201	1	3	L	1.2	.	.	.	S424	.	.	1
9	870608	915	201	1	3	L	1.2	.	.	.	S523	.	.	1
9	870608	915	201	1	3	L	1.2	.	.	.	H118	4	3	28

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TRIP	DATE	TIME	STN	SET	HAUL	TIDE	THGHT	TEMP	SAL	CURR	SPEC	GROUP	STAGE	CATCH
9	870608	920	201	2	3	L	1.2	.	.	.	H124	4	4	7
9	870608	920	201	2	3	L	1.2	.	.	.	H631	.	.	6
9	870608	920	201	2	3	L	1.2	.	.	.	S823	.	.	3
9	870608	920	201	2	3	L	1.2	.	.	.	S665	.	.	5
9	870608	920	201	2	3	L	1.2	.	.	.	S503	.	.	4
9	870608	920	201	2	3	L	1.2	.	.	.	S424	.	.	4
9	870608	925	201	3	3	L	1.2	.	.	.	H124	4	4	1
9	870608	925	201	3	3	L	1.2	.	.	.	H631	.	.	2
9	870608	925	201	3	3	L	1.2	.	.	.	S823	.	.	1
9	870608	925	201	3	3	L	1.2	.	.	.	S503	.	.	1
9	870608	925	201	3	3	L	1.2	.	.	.	S424	.	.	7
9	870608	950	202	1	3	L	1.2	.	.	.	H124	4	3	1
9	870608	950	202	1	3	L	1.2	.	.	.	H124	4	4	8
9	870608	950	202	1	3	L	1.2	.	.	.	H118	4	7	7
9	870608	950	202	1	3	L	1.2	.	.	.	S665	.	.	16
9	870608	950	202	1	3	L	1.2	.	.	.	S823	.	.	2
9	870608	950	202	1	3	L	1.2	.	.	.	S424	.	.	4
9	870608	955	202	2	3	L	1.2	.	.	.	H124	4	3	2
9	870608	955	202	2	3	L	1.2	.	.	.	H124	4	4	1
9	870608	955	202	2	3	L	1.2	.	.	.	H631	.	.	3
9	870608	955	202	2	3	L	1.2	.	.	.	S665	.	.	5
9	870608	955	202	2	3	L	1.2	.	.	.	S823	.	.	25
9	870608	955	202	2	3	L	1.2	.	.	.	S424	.	.	1
9	870608	955	202	2	3	L	1.2	.	.	.	S503	.	.	1
9	870608	1000	202	3	3	L	1.2	.	.	.	H124	4	3	2
9	870608	1000	202	3	3	L	1.2	.	.	.	S665	.	.	8
9	870608	1000	202	3	3	L	1.2	.	.	.	S823	.	.	13
9	870608	1000	202	3	3	L	1.2	.	.	.	S424	.	.	1
9	870608	1000	202	3	3	L	1.2	.	.	.	S503	.	.	1
9	870608	1020	203	1	3	L	1.2	.	.	.	H124	4	4	3
9	870608	1020	203	1	3	L	1.2	.	.	.	H124	4	3	26
9	870608	1020	203	1	3	L	1.2	.	.	.	H112	4	7	6
9	870608	1020	203	1	3	L	1.2	.	.	.	S424	.	.	11
9	870608	1020	203	1	3	L	1.2	.	.	.	S823	.	.	1
9	870608	1020	203	1	3	L	1.2	.	.	.	H631	.	.	10
9	870608	1020	203	1	3	L	1.2	.	.	.	H118	4	3	76
9	870608	1020	203	1	3	L	1.2	.	.	.	S487	.	.	2
9	870608	1020	203	1	3	L	1.2	.	.	.	H143	.	.	2
9	870608	1020	203	1	3	L	1.2	.	.	.	S665	.	.	1
9	870608	1030	203	2	3	L	1.2	.	.	.	S665	.	.	2
9	870608	1030	203	2	3	L	1.2	.	.	.	H124	4	4	6
9	870608	1030	203	2	3	L	1.2	.	.	.	H124	4	3	3
9	870608	1030	203	2	3	L	1.2	.	.	.	H112	4	7	1
9	870608	1030	203	2	3	L	1.2	.	.	.	S424	.	.	4
9	870608	1030	203	2	3	L	1.2	.	.	.	S823	.	.	4

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TRIP	DATE	TIME	STN	SET	HAUL	TIDE	THGHT	TEMP	SAL	CURR	SPEC	GROUP	STAGE	CATCH
9	870608	1030	203	2	3	L	1.2	.	.	.	H631	.	.	10
9	870608	1030	203	2	3	L	1.2	.	.	.	H118	4	3	21
9	870608	1030	203	2	3	L	1.2	.	.	.	H143	.	.	1
9	870608	1030	203	2	3	L	1.2	.	.	.	S665	.	.	3
9	870608	1030	203	2	3	L	1.2	.	.	.	S503	.	.	1
9	870608	1035	203	3	3	L	1.2	.	.	.	H124	4	4	3
9	870608	1035	203	3	3	L	1.2	.	.	.	H124	4	3	5
9	870608	1035	203	3	3	L	1.2	.	.	.	S424	.	.	1
9	870608	1035	203	3	3	L	1.2	.	.	.	S823	.	.	2
9	870608	1035	203	3	3	L	1.2	.	.	.	H631	.	.	3
9	870608	1035	203	3	3	L	1.2	.	.	.	H118	4	3	1
9	870608	1055	204	1	1	L	1.2	.	.	.		.	.	0
9	870608	1635	201	1	3	H	3.9	.	.	.	H124	4	4	7
9	870608	1635	201	1	3	H	3.9	.	.	.	S424	.	.	1
9	870608	1635	201	1	3	H	3.9	.	.	.	H115	4	4	2
9	870608	1635	201	1	3	H	3.9	.	.	.	H115	1	7	1
9	870608	1635	201	1	3	H	3.9	.	.	.	H118	4	3	2
9	870608	1635	201	1	3	H	3.9	.	.	.	H124	4	3	3
9	870608	1640	201	2	3	H	3.9	.	.	.	S424	.	.	5
9	870608	1640	201	2	3	H	3.9	.	.	.	S665	.	.	1
9	870608	1640	201	2	3	H	3.9	.	.	.	S503	.	.	4
9	870608	1640	201	2	3	H	3.9	.	.	.	S823	.	.	1
9	870608	1645	201	3	3	H	3.9	.	.	.		.	.	0
9	870608	1700	202	1	3	H	3.9	.	.	.	H124	4	4	3
9	870608	1700	202	1	3	H	3.9	.	.	.	H112	4	7	2
9	870608	1700	202	1	3	H	3.9	.	.	.	S487	.	.	1
9	870608	1710	202	2	3	H	3.9	.	.	.	H118	4	3	7
9	870608	1710	202	2	3	H	3.9	.	.	.	S665	.	.	5
9	870608	1710	202	2	3	H	3.9	.	.	.	S503	.	.	1
9	870608	1710	202	2	3	H	3.9	.	.	.	S823	.	.	1
9	870608	1715	202	3	3	H	3.9	.	.	.	H115	4	4	2
9	870608	1715	202	3	3	H	3.9	.	.	.	S424	.	.	1
9	870608	1715	202	3	3	H	3.9	.	.	.	S823	.	.	1
9	870608	1740	203	1	3	H	3.9	.	.	.	H124	4	4	15
9	870608	1740	203	1	3	H	3.9	.	.	.	H124	4	3	25
9	870608	1740	203	1	3	H	3.9	.	.	.	H112	4	3	2
9	870608	1740	203	1	3	H	3.9	.	.	.	H115	4	4	1
9	870608	1740	203	1	3	H	3.9	.	.	.	S424	.	.	26
9	870608	1740	203	1	3	H	3.9	.	.	.	H631	.	.	12
9	870608	1740	203	1	3	H	3.9	.	.	.	S503	.	.	1
9	870608	1740	203	1	3	H	3.9	.	.	.	S823	.	.	5
9	870608	1745	203	2	3	H	3.9	.	.	.	H124	4	4	1
9	870608	1745	203	2	3	H	3.9	.	.	.	H118	4	4	7
9	870608	1745	203	2	3	H	3.9	.	.	.	H115	4	4	2
9	870608	1745	203	2	3	H	3.9	.	.	.	S424	.	.	80

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TRIP	DATE	TIME	STN	SET	HAUL	TIDE	THGHT	TEMP	SAL	CURR	SPEC	GROUP	STAGE	CATCH
9	870608	1745	203	2	3	H	3.9	.	.	.	H631	.	.	15
9	870608	1745	203	2	3	H	3.9	.	.	.	S523	.	.	1
9	870608	1750	203	3	3	H	3.9	.	.	.	H124	4	4	4
9	870608	1750	203	3	3	H	3.9	.	.	.	H115	4	4	1
9	870608	1750	203	3	3	H	3.9	.	.	.	S424	.	.	51
9	870608	1750	203	3	3	H	3.9	.	.	.	H631	.	.	7
9	870608	1750	203	3	3	H	3.9	.	.	.	S665	.	.	1
9	870608	1750	203	3	3	H	3.9	.	.	.	S823	.	.	2
9	870608	1800	204	1	3	H	3.9	.	.	.	H124	4	3	13
9	870608	1800	204	1	3	H	3.9	.	.	.	H124	4	4	15
9	870608	1800	204	1	3	H	3.9	.	.	.	H118	4	3	3
9	870608	1800	204	1	3	H	3.9	.	.	.	H631	.	.	1
9	870608	1800	204	1	3	H	3.9	.	.	.	S424	.	.	3
9	870608	1800	204	1	3	H	3.9	.	.	.	S487	.	.	1
9	870608	1815	204	3	3	H	3.9	.	.	.	S665	.	.	1
9	870608	1815	204	3	3	H	3.9	.	.	.	H631	.	.	7
10	870624	910	201	1	3	L	0.7	14.8	0.0	.	H124	4	4	3
10	870624	910	201	1	3	L	0.7	14.8	0.0	.	S424	.	.	7
10	870624	910	201	1	3	L	0.7	14.8	0.0	.	S823	.	.	2
10	870624	910	201	1	3	L	0.7	14.8	0.0	.	S665	.	.	1
10	870624	910	201	1	3	L	0.7	14.8	0.0	.	H118	4	3	9
10	870624	910	201	1	3	L	0.7	14.8	0.0	.	H631	.	.	2
10	870624	915	201	2	3	L	0.7	14.8	0.0	.	H124	4	4	6
10	870624	915	201	2	3	L	0.7	14.8	0.0	.	S424	.	.	2
10	870624	915	201	2	3	L	0.7	14.8	0.0	.	S823	.	.	1
10	870624	915	201	2	3	L	0.7	14.8	0.0	.	S665	.	.	6
10	870624	915	201	2	3	L	0.7	14.8	0.0	.	H118	4	3	10
10	870624	915	201	2	3	L	0.7	14.8	0.0	.	H631	.	.	1
10	870624	915	201	2	3	L	0.7	14.8	0.0	.	S487	.	.	1
10	870624	915	201	2	3	L	0.7	14.8	0.0	.	S523	.	.	2
10	870624	920	201	3	3	L	0.7	14.8	0.0	.	H124	4	4	1
10	870624	920	201	3	3	L	0.7	14.8	0.0	.	S424	.	.	8
10	870624	920	201	3	3	L	0.7	14.8	0.0	.	S823	.	.	1
10	870624	920	201	3	3	L	0.7	14.8	0.0	.	S665	.	.	1
10	870624	920	201	3	3	L	0.7	14.8	0.0	.	H118	4	3	4
10	870624	920	201	3	3	L	0.7	14.8	0.0	.	H631	.	.	6
10	870624	920	201	3	3	L	0.7	14.8	0.0	.	H112	4	3	4
10	870624	945	202	1	3	L	0.7	14.9	0.0	.	H124	4	3	1
10	870624	945	202	1	3	L	0.7	14.9	0.0	.	H124	4	4	2
10	870624	945	202	1	3	L	0.7	14.9	0.0	.	S823	.	.	2
10	870624	945	202	1	3	L	0.7	14.9	0.0	.	H631	.	.	1
10	870624	945	202	1	3	L	0.7	14.9	0.0	.	S424	.	.	4
10	870624	945	202	1	3	L	0.7	14.9	0.0	.	H118	4	3	5
10	870624	945	202	1	3	L	0.7	14.9	0.0	.	S665	.	.	1
10	870624	950	202	2	3	L	0.7	14.9	0.0	.	H124	4	4	4

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TRIP	DATE	TIME	STN	SET	HAUL	TIDE	THGHT	TEMP	SAL	CURR	SPEC	GROUP	STAGE	CATCH
10	870624	950	202	2	3	L	0.7	14.9	0.0	.	S823	.	.	5
10	870624	950	202	2	3	L	0.7	14.9	0.0	.	H631	.	.	3
10	870624	950	202	2	3	L	0.7	14.9	0.0	.	S424	.	.	4
10	870624	950	202	2	3	L	0.7	14.9	0.0	.	H118	4	3	5
10	870624	950	202	2	3	L	0.7	14.9	0.0	.	S665	.	.	1
10	870624	955	202	3	3	L	0.7	14.9	0.0	.	H124	4	3	1
10	870624	955	202	3	3	L	0.7	14.9	0.0	.	H124	4	4	4
10	870624	955	202	3	3	L	0.7	14.9	0.0	.	S823	.	.	7
10	870624	955	202	3	3	L	0.7	14.9	0.0	.	S424	.	.	1
10	870624	955	202	3	3	L	0.7	14.9	0.0	.	H118	4	3	10
10	870624	955	202	3	3	L	0.7	14.9	0.0	.	S665	.	.	3
10	870624	1015	203	1	3	L	0.7	14.9	0.0	.	S424	.	.	21
10	870624	1015	203	1	3	L	0.7	14.9	0.0	.	S823	.	.	3
10	870624	1015	203	1	3	L	0.7	14.9	0.0	.	S665	.	.	2
10	870624	1015	203	1	3	L	0.7	14.9	0.0	.	H631	.	.	62
10	870624	1015	203	1	3	L	0.7	14.9	0.0	.	S487	.	.	5
10	870624	1015	203	1	3	L	0.7	14.9	0.0	.	H124	4	4	3
10	870624	1015	203	1	3	L	0.7	14.9	0.0	.	H124	4	3	2
10	870624	1015	203	1	3	L	0.7	14.9	0.0	.	H143	.	.	2
10	870624	1015	203	1	3	L	0.7	14.9	0.0	.	S523	.	.	1
10	870624	1015	203	1	3	L	0.7	14.9	0.0	.	H118	4	3	6
10	870624	1020	203	2	3	L	0.7	14.9	0.0	.	S424	.	.	9
10	870624	1020	203	2	3	L	0.7	14.9	0.0	.	S823	.	.	1
10	870624	1020	203	2	3	L	0.7	14.9	0.0	.	S665	.	.	1
10	870624	1020	203	2	3	L	0.7	14.9	0.0	.	H631	.	.	19
10	870624	1020	203	2	3	L	0.7	14.9	0.0	.	H124	4	4	1
10	870624	1020	203	2	3	L	0.7	14.9	0.0	.	H143	.	.	4
10	870624	1020	203	2	3	L	0.7	14.9	0.0	.	H118	4	3	3
10	870624	1025	203	3	3	L	0.7	14.9	0.0	.	S424	.	.	16
10	870624	1025	203	3	3	L	0.7	14.9	0.0	.	S823	.	.	3
10	870624	1025	203	3	3	L	0.7	14.9	0.0	.	S665	.	.	1
10	870624	1025	203	3	3	L	0.7	14.9	0.0	.	H631	.	.	9
10	870624	1025	203	3	3	L	0.7	14.9	0.0	.	S487	.	.	1
10	870624	1025	203	3	3	L	0.7	14.9	0.0	.	H124	4	4	3
10	870624	1025	203	3	3	L	0.7	14.9	0.0	.	H143	.	.	5
10	870624	1025	203	3	3	L	0.7	14.9	0.0	.	H118	4	3	8
10	870624	1025	203	3	3	L	0.7	14.9	0.0	.	S291	.	.	1
10	870624	1025	203	3	3	L	0.7	14.9	0.0	.	S503	.	.	3
10	870624	1055	204	1	3	L	0.7	14.6	0.0	.	S424	.	.	2
10	870624	1055	204	1	3	L	0.7	14.6	0.0	.	S823	.	.	3
10	870624	1055	204	1	3	L	0.7	14.6	0.0	.	H631	.	.	2
10	870624	1055	204	1	3	L	0.7	14.6	0.0	.	H124	4	4	4
10	870624	1055	204	1	3	L	0.7	14.6	0.0	.	H118	4	3	7
10	870624	1100	204	2	3	L	0.7	14.6	0.0	.	S823	.	.	9
10	870624	1100	204	2	3	L	0.7	14.6	0.0	.	S665	.	.	1

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TRIP	DATE	TIME	STN	SET	HAUL	TIDE	THGHT	TEMP	SAL	CURR	SPEC	GROUP	STAGE	CATCH
10	870624	1100	204	2	3	L	0.7	14.6	0.0	.	H631	.	.	1
10	870624	1100	204	2	3	L	0.7	14.6	0.0	.	H124	4	4	2
10	870624	1110	204	3	3	L	0.7	14.6	0.0	.	S424	.	.	1
10	870624	1110	204	3	3	L	0.7	14.6	0.0	.	H124	4	3	2
10	870624	1110	204	3	3	L	0.7	14.6	0.0	.	H118	4	3	6
10	870624	1700	204	1	3	H	4.6	15.2	0.0	.	S424	.	.	6
10	870624	1700	204	1	3	H	4.6	15.2	0.0	.	H124	4	4	1
10	870624	1700	204	1	3	H	4.6	15.2	0.0	.	H112	4	3	15
10	870624	1700	204	1	3	H	4.6	15.2	0.0	.	S523	.	.	1
10	870624	1705	204	2	3	H	4.6	15.2	0.0	.	S424	.	.	2
10	870624	1705	204	2	3	H	4.6	15.2	0.0	.	H631	.	.	1
10	870624	1705	204	2	3	H	4.6	15.2	0.0	.	H124	4	4	3
10	870624	1705	204	2	3	H	4.6	15.2	0.0	.	H124	4	3	1
10	870624	1705	204	2	3	H	4.6	15.2	0.0	.	H112	4	3	1
10	870624	1710	204	3	3	H	4.6	15.2	0.0	.	S665	.	.	2
10	870624	1710	204	3	3	H	4.6	15.2	0.0	.	H124	4	4	1
10	870624	1710	204	3	3	H	4.6	15.2	0.0	.	H118	4	3	1
10	870624	1730	203	1	3	H	4.6	16.3	0.0	.	S424	.	.	20
10	870624	1730	203	1	3	H	4.6	16.3	0.0	.	S823	.	.	2
10	870624	1730	203	1	3	H	4.6	16.3	0.0	.	H631	.	.	17
10	870624	1730	203	1	3	H	4.6	16.3	0.0	.	H124	4	4	6
10	870624	1730	203	1	3	H	4.6	16.3	0.0	.	H124	4	3	1
10	870624	1730	203	1	3	H	4.6	16.3	0.0	.	H118	4	3	32
10	870624	1730	203	1	3	H	4.6	16.3	0.0	.	H143	.	.	1
10	870624	1730	203	1	3	H	4.6	16.3	0.0	.	S523	.	.	3
10	870624	1730	203	1	3	H	4.6	16.3	0.0	.	S487	.	.	2
10	870624	1735	203	2	3	H	4.6	16.3	0.0	.	S823	.	.	1
10	870624	1735	203	2	3	H	4.6	16.3	0.0	.	H631	.	.	9
10	870624	1735	203	2	3	H	4.6	16.3	0.0	.	H124	4	4	3
10	870624	1735	203	2	3	H	4.6	16.3	0.0	.	H124	4	3	1
10	870624	1735	203	2	3	H	4.6	16.3	0.0	.	H118	4	3	10
10	870624	1735	203	2	3	H	4.6	16.3	0.0	.	S523	.	.	1
10	870624	1740	203	3	3	H	4.6	16.3	0.0	.	S424	.	.	1
10	870624	1740	203	3	3	H	4.6	16.3	0.0	.	S665	.	.	2
10	870624	1740	203	3	3	H	4.6	16.3	0.0	.	S823	.	.	1
10	870624	1740	203	3	3	H	4.6	16.3	0.0	.	H631	.	.	7
10	870624	1740	203	3	3	H	4.6	16.3	0.0	.	H124	4	4	2
10	870624	1740	203	3	3	H	4.6	16.3	0.0	.	H124	4	3	3
10	870624	1740	203	3	3	H	4.6	16.3	0.0	.	H118	4	3	11
10	870624	1800	202	1	3	H	4.6	15.6	0.0	.	H124	4	4	2
10	870624	1800	202	1	3	H	4.6	15.6	0.0	.	H118	4	3	2
10	870624	1805	202	2	3	H	4.6	15.6	0.0	.	S424	.	.	1
10	870624	1805	202	2	3	H	4.6	15.6	0.0	.	S823	.	.	2
10	870624	1805	202	2	3	H	4.6	15.6	0.0	.	H118	4	3	9
10	870624	1805	202	2	3	H	4.6	15.6	0.0	.	S487	.	.	1

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TRIP	DATE	TIME	STN	SET	HAUL	TIDE	THGHT	TEMP	SAL	CURR	SPEC	GROUP	STAGE	CATCH
10	870624	1810	202	3	3	H	4.6	15.6	0.0	.	S424	.	.	1
10	870624	1810	202	3	3	H	4.6	15.6	0.0	.	H631	.	.	1
10	870624	1810	202	3	3	H	4.6	15.6	0.0	.	H118	4	3	1
10	870624	1820	201	1	3	H	4.6	15.0	0.2	.	S665	.	.	1
10	870624	1820	201	1	3	H	4.6	15.0	0.2	.	H115	4	4	1
10	870624	1820	201	1	3	H	4.6	15.0	0.2	.	S487	.	.	1
10	870624	1820	201	1	3	H	4.6	15.0	0.2	.	H118	4	3	25
10	870624	1825	201	2	3	H	4.6	15.0	0.2	.	H124	4	4	2
10	870624	1825	201	2	3	H	4.6	15.0	0.2	.	H118	4	3	6
10	870624	1825	201	2	3	H	4.6	15.0	0.2	.	S523	.	.	1
10	870624	1830	201	3	3	H	4.6	15.0	0.2	.	H124	4	4	2
10	870624	1830	201	3	3	H	4.6	15.0	0.2	.	H118	4	3	59
11	870708	750	201	1	3	L	0.5	15.3	0.0	0.04	S424	.	.	30
11	870708	750	201	1	3	L	0.5	15.3	0.0	0.04	S823	.	.	1
11	870708	750	201	1	3	L	0.5	15.3	0.0	0.04	S503	.	.	13
11	870708	750	201	1	3	L	0.5	15.3	0.0	0.04	H631	.	.	5
11	870708	750	201	1	3	L	0.5	15.3	0.0	0.04	H124	4	4	3
11	870708	750	201	1	3	L	0.5	15.3	0.0	0.04	H118	4	3	2
11	870708	750	201	1	3	L	0.5	15.3	0.0	0.04	S665	.	.	5
11	870708	750	201	1	3	L	0.5	15.3	0.0	0.04	H115	4	4	1
11	870708	755	201	2	3	L	0.5	15.3	0.0	0.04	S424	.	.	22
11	870708	755	201	2	3	L	0.5	15.3	0.0	0.04	S823	.	.	7
11	870708	755	201	2	3	L	0.5	15.3	0.0	0.04	S503	.	.	5
11	870708	755	201	2	3	L	0.5	15.3	0.0	0.04	H118	4	3	8
11	870708	755	201	2	3	L	0.5	15.3	0.0	0.04	S544	.	.	1
11	870708	800	201	3	3	L	0.5	15.3	0.0	0.04	S424	.	.	7
11	870708	800	201	3	3	L	0.5	15.3	0.0	0.04	S823	.	.	1
11	870708	800	201	3	3	L	0.5	15.3	0.0	0.04	S503	.	.	1
11	870708	800	201	3	3	L	0.5	15.3	0.0	0.04	S665	.	.	1
11	870708	830	202	1	3	L	0.5	14.9	0.0	0.46	S424	.	.	5
11	870708	830	202	1	3	L	0.5	14.9	0.0	0.46	S823	.	.	11
11	870708	830	202	1	3	L	0.5	14.9	0.0	0.46	S665	.	.	3
11	870708	830	202	1	3	L	0.5	14.9	0.0	0.46	H631	.	.	3
11	870708	830	202	1	3	L	0.5	14.9	0.0	0.46	S503	.	.	1
11	870708	830	202	1	3	L	0.5	14.9	0.0	0.46	S487	.	.	2
11	870708	830	202	1	3	L	0.5	14.9	0.0	0.46	H118	4	3	13
11	870708	830	202	1	3	L	0.5	14.9	0.0	0.46	H115	4	4	2
11	870708	830	202	1	3	L	0.5	14.9	0.0	0.46	S823	.	.	9
11	870708	835	202	2	3	L	0.5	14.9	0.0	0.46	H631	.	.	4
11	870708	835	202	2	3	L	0.5	14.9	0.0	0.46	H124	4	4	1
11	870708	835	202	2	3	L	0.5	14.9	0.0	0.46	S036	.	.	1
11	870708	840	202	3	3	L	0.5	14.9	0.0	0.46	S424	.	.	2
11	870708	840	202	3	3	L	0.5	14.9	0.0	0.46	S823	.	.	1
11	870708	840	202	3	3	L	0.5	14.9	0.0	0.46	S665	.	.	3
11	870708	840	202	3	3	L	0.5	14.9	0.0	0.46	H631	.	.	5

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TRIP	DATE	TIME	STN	SET	HAUL	TIDE	THGHT	TEMP	SAL	CURR	SPEC	GROUP	STAGE	CATCH
11	870708	840	202	3	3	L	0.5	14.9	0.0	0.46	S487	.	.	1
11	870708	840	202	3	3	L	0.5	14.9	0.0	0.46	H118	4	3	2
11	870708	840	202	3	3	L	0.5	14.9	0.0	0.46	H124	4	4	1
11	870708	840	202	3	3	L	0.5	14.9	0.0	0.46	H118	4	4	1
11	870708	900	203	1	3	L	0.5	15.9	0.0	0.06	S523	.	.	3
11	870708	900	203	1	3	L	0.5	15.9	0.0	0.06	S487	.	.	5
11	870708	900	203	1	3	L	0.5	15.9	0.0	0.06	S424	.	.	100
11	870708	900	203	1	3	L	0.5	15.9	0.0	0.06	H631	.	.	58
11	870708	900	203	1	3	L	0.5	15.9	0.0	0.06	S503	.	.	40
11	870708	900	203	1	3	L	0.5	15.9	0.0	0.06	H143	.	.	3
11	870708	900	203	1	3	L	0.5	15.9	0.0	0.06	H124	4	4	1
11	870708	900	203	1	3	L	0.5	15.9	0.0	0.06	H118	4	3	5
11	870708	900	203	1	3	L	0.5	15.9	0.0	0.06	S823	.	.	16
11	870708	905	203	2	3	L	0.5	15.9	0.0	0.06	S424	.	.	11
11	870708	905	203	2	3	L	0.5	15.9	0.0	0.06	S823	.	.	1
11	870708	905	203	2	3	L	0.5	15.9	0.0	0.06	H631	.	.	16
11	870708	905	203	2	3	L	0.5	15.9	0.0	0.06	S503	.	.	4
11	870708	905	203	2	3	L	0.5	15.9	0.0	0.06	H118	4	3	4
11	870708	910	203	3	3	L	0.5	15.9	0.0	0.06	S424	.	.	14
11	870708	910	203	3	3	L	0.5	15.9	0.0	0.06	S823	.	.	18
11	870708	910	203	3	3	L	0.5	15.9	0.0	0.06	H631	.	.	52
11	870708	910	203	3	3	L	0.5	15.9	0.0	0.06	S503	.	.	9
11	870708	910	203	3	3	L	0.5	15.9	0.0	0.06	H143	.	.	1
11	870708	940	204	1	3	L	0.5	15.7	0.0	.	H118	4	3	2
11	870708	940	204	1	3	L	0.5	15.7	0.0	.	H124	4	4	1
11	870708	945	204	2	3	L	0.5	15.7	0.0	.	H118	4	3	1
11	870708	945	204	2	3	L	0.5	15.7	0.0	.	H124	4	4	2
11	870708	945	204	2	3	L	0.5	15.7	0.0	.	S424	.	.	2
11	870708	945	204	2	3	L	0.5	15.7	0.0	.	S665	.	.	1
11	870708	945	204	2	3	L	0.5	15.7	0.0	.	H631	.	.	1
11	870708	945	204	2	3	L	0.5	15.7	0.0	.	S823	.	.	8
11	870708	950	204	3	3	L	0.5	15.7	0.0	.	H118	4	3	2
11	870708	950	204	3	3	L	0.5	15.7	0.0	.	H124	4	4	1
11	870708	950	204	3	3	L	0.5	15.7	0.0	.	S823	.	.	6
11	870708	950	204	3	3	L	0.5	15.7	0.0	.	H143	.	.	1
11	870708	950	204	3	3	L	0.5	15.7	0.0	.	S487	.	.	1
11	870708	1530	201	1	3	H	4.4	15.8	0.1	0.00	S665	.	.	6
11	870708	1530	201	1	3	H	4.4	15.8	0.1	0.00	H118	4	7	2
11	870708	1530	201	1	3	H	4.4	15.8	0.1	0.00	H124	4	4	2
11	870708	1530	201	1	3	H	4.4	15.8	0.1	0.00	S503	.	.	5
11	870708	1535	201	2	3	H	4.4	15.8	0.1	0.00	S665	.	.	5
11	870708	1535	201	2	3	H	4.4	15.8	0.1	0.00	H118	4	7	3
11	870708	1535	201	2	3	H	4.4	15.8	0.1	0.00	H124	4	4	1
11	870708	1535	201	2	3	H	4.4	15.8	0.1	0.00	S503	.	.	9
11	870708	1535	201	2	3	H	4.4	15.8	0.1	0.00	S424	.	.	10

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TRIP	DATE	TIME	STN	SET	HAUL	TIDE	THGHT	TEMP	SAL	CURR	SPEC	GROUP	STAGE	CATCH
11	870708	1540	201	3	3	H	4.4	15.8	0.1	0.00	S665	.	.	1
11	870708	1540	201	3	3	H	4.4	15.8	0.1	0.00	S503	.	.	3
11	870708	1540	201	3	3	H	4.4	15.8	0.1	0.00	S424	.	.	2
11	870708	1540	201	3	3	H	4.4	15.8	0.1	0.00	S817	.	.	2
11	870708	1600	202	1	3	H	4.4	15.8	0.0	.	H124	4	4	2
11	870708	1600	202	1	3	H	4.4	15.8	0.0	.	S424	.	.	2
11	870708	1600	202	1	3	H	4.4	15.8	0.0	.	H631	.	.	1
11	870708	1600	202	1	3	H	4.4	15.8	0.0	.	S665	.	.	14
11	870708	1600	202	1	3	H	4.4	15.8	0.0	.	S823	.	.	1
11	870708	1605	202	2	3	H	4.4	15.8	0.0	.	H124	4	4	1
11	870708	1605	202	2	3	H	4.4	15.8	0.0	.	H118	4	7	1
11	870708	1605	202	2	3	H	4.4	15.8	0.0	.	S665	.	.	8
11	870708	1610	202	3	3	H	4.4	15.8	0.0	.	H124	4	4	2
11	870708	1610	202	3	3	H	4.4	15.8	0.0	.	S424	.	.	4
11	870708	1610	202	3	3	H	4.4	15.8	0.0	.	S665	.	.	14
11	870708	1610	202	3	3	H	4.4	15.8	0.0	.	S823	.	.	1
11	870708	1630	203	1	3	H	4.4	16.4	0.0	0.00	H118	4	3	1
11	870708	1630	203	1	3	H	4.4	16.4	0.0	0.00	H631	.	.	1
11	870708	1630	203	1	3	H	4.4	16.4	0.0	0.00	S424	.	.	1
11	870708	1630	203	1	3	H	4.4	16.4	0.0	0.00	S999	.	.	3
11	870708	1630	203	1	3	H	4.4	16.4	0.0	0.00	S665	.	.	1
11	870708	1635	203	2	3	H	4.4	16.4	0.0	0.00	H118	4	3	15
11	870708	1635	203	2	3	H	4.4	16.4	0.0	0.00	H631	.	.	7
11	870708	1635	203	2	3	H	4.4	16.4	0.0	0.00	S424	.	.	2
11	870708	1635	203	2	3	H	4.4	16.4	0.0	0.00	S999	.	.	4
11	870708	1635	203	2	3	H	4.4	16.4	0.0	0.00	S503	.	.	2
11	870708	1635	203	2	3	H	4.4	16.4	0.0	0.00	H124	4	7	1
11	870708	1635	203	2	3	H	4.4	16.4	0.0	0.00	S817	.	.	1
11	870708	1640	203	3	3	H	4.4	16.4	0.0	0.00	S487	.	.	1
11	870708	1640	203	3	3	H	4.4	16.4	0.0	0.00	H631	.	.	1
11	870708	1640	203	3	3	H	4.4	16.4	0.0	0.00	S999	.	.	3
11	870708	1640	203	3	3	H	4.4	16.4	0.0	0.00	S503	.	.	1
11	870708	1640	203	3	3	H	4.4	16.4	0.0	0.00	S817	.	.	6
11	870708	1640	203	3	3	H	4.4	16.4	0.0	0.00	S523	.	.	2
11	870708	1700	204	1	3	H	4.4	16.0	0.0	0.02	S424	.	.	5
11	870708	1700	204	1	3	H	4.4	16.0	0.0	0.02	S487	.	.	3
11	870708	1700	204	1	3	H	4.4	16.0	0.0	0.02	H134	4	7	1
11	870708	1700	204	1	3	H	4.4	16.0	0.0	0.02	H124	4	4	2
11	870708	1700	204	1	3	H	4.4	16.0	0.0	0.02	H118	4	3	5
11	870708	1700	204	1	3	H	4.4	16.0	0.0	0.02	S665	.	.	15
11	870708	1705	204	2	3	H	4.4	16.0	0.0	0.02	H124	4	4	1
11	870708	1705	204	2	3	H	4.4	16.0	0.0	0.02	H118	4	3	2
11	870708	1705	204	2	3	H	4.4	16.0	0.0	0.02	S487	.	.	1
11	870708	1710	204	3	3	H	4.4	16.0	0.0	0.02	H124	4	4	3
11	870708	1710	204	3	3	H	4.4	16.0	0.0	0.02	H118	4	4	1

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TRIP	DATE	TIME	STN	SET	HAUL	TIDE	THGHT	TEMP	SAL	CURR	SPEC	GROUP	STAGE	CATCH
11	870708	1710	204	3	3	H	4.4	16.0	0.0	0.02	S665	.	.	31
11	870708	1710	204	3	3	H	4.4	16.0	0.0	0.02	S503	.	.	1
12	870723	925	201	1	3	L	0.8	19.8	0.0	0.22	S424	.	.	67
12	870723	925	201	1	3	L	0.8	19.8	0.0	0.22	H631	.	.	9
12	870723	925	201	1	3	L	0.8	19.8	0.0	0.22	S823	.	.	1
12	870723	925	201	1	3	L	0.8	19.8	0.0	0.22	S487	.	.	1
12	870723	925	201	1	3	L	0.8	19.8	0.0	0.22	S503	.	.	3
12	870723	925	201	1	3	L	0.8	19.8	0.0	0.22	H118	4	3	3
12	870723	930	201	2	3	L	0.8	19.8	0.0	0.22	S424	.	.	67
12	870723	930	201	2	3	L	0.8	19.8	0.0	0.22	H631	.	.	1
12	870723	930	201	2	3	L	0.8	19.8	0.0	0.22	S823	.	.	1
12	870723	930	201	2	3	L	0.8	19.8	0.0	0.22	S487	.	.	2
12	870723	930	201	2	3	L	0.8	19.8	0.0	0.22	S503	.	.	3
12	870723	930	201	2	3	L	0.8	19.8	0.0	0.22	H118	4	3	10
12	870723	930	201	2	3	L	0.8	19.8	0.0	0.22	H124	4	4	1
12	870723	930	201	2	3	L	0.8	19.8	0.0	0.22	H115	4	4	1
12	870723	930	201	2	3	L	0.8	19.8	0.0	0.22	S665	.	.	3
12	870723	935	201	3	3	L	0.8	19.8	0.0	0.22	S424	.	.	6
12	870723	935	201	3	3	L	0.8	19.8	0.0	0.22	H631	.	.	1
12	870723	935	201	3	3	L	0.8	19.8	0.0	0.22	S503	.	.	7
12	870723	935	201	3	3	L	0.8	19.8	0.0	0.22	S665	.	.	1
12	870723	955	202	1	3	L	0.8	20.0	0.0	0.06	H631	.	.	9
12	870723	955	202	1	3	L	0.8	20.0	0.0	0.06	S823	.	.	2
12	870723	1000	202	2	3	L	0.8	20.0	0.0	0.06	H631	.	.	4
12	870723	1000	202	2	3	L	0.8	20.0	0.0	0.06	S823	.	.	2
12	870723	1000	202	2	3	L	0.8	20.0	0.0	0.06	S424	.	.	1
12	870723	1000	202	2	3	L	0.8	20.0	0.0	0.06	S503	.	.	2
12	870723	1000	202	2	3	L	0.8	20.0	0.0	0.06	H118	4	3	1
12	870723	1000	202	2	3	L	0.8	20.0	0.0	0.06	S487	.	.	1
12	870723	1005	202	3	3	L	0.8	20.0	0.0	0.06	S424	.	.	1
12	870723	1005	202	3	3	L	0.8	20.0	0.0	0.06	S503	.	.	3
12	870723	1005	202	3	3	L	0.8	20.0	0.0	0.06	H118	4	3	38
12	870723	1005	202	3	3	L	0.8	20.0	0.0	0.06	H124	4	3	2
12	870723	1005	202	3	3	L	0.8	20.0	0.0	0.06	H124	4	4	2
12	870723	1005	202	3	3	L	0.8	20.0	0.0	0.06	S665	.	.	7
12	870723	1025	203	1	3	L	0.8	19.0	0.0	0.14	S424	.	.	247
12	870723	1025	203	1	3	L	0.8	19.0	0.0	0.14	H631	.	.	49
12	870723	1025	203	1	3	L	0.8	19.0	0.0	0.14	S665	.	.	11
12	870723	1025	203	1	3	L	0.8	19.0	0.0	0.14	S487	.	.	3
12	870723	1025	203	1	3	L	0.8	19.0	0.0	0.14	H124	4	4	3
12	870723	1025	203	1	3	L	0.8	19.0	0.0	0.14	S494	.	.	1
12	870723	1025	203	1	3	L	0.8	19.0	0.0	0.14	H118	4	3	14
12	870723	1025	203	1	3	L	0.8	19.0	0.0	0.14	S503	.	.	7
12	870723	1025	203	1	3	L	0.8	19.0	0.0	0.14	S823	.	.	2
12	870723	1025	203	1	3	L	0.8	19.0	0.0	0.14	S523	.	.	2

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12	870723	1030	203	2	3	L	0.8	19.0	0.0	0.14	S424	.	.	42
12	870723	1030	203	2	3	L	0.8	19.0	0.0	0.14	H631	.	.	9
12	870723	1030	203	2	3	L	0.8	19.0	0.0	0.14	S665	.	.	3
12	870723	1030	203	2	3	L	0.8	19.0	0.0	0.14	H128	4	4	1
12	870723	1030	203	2	3	L	0.8	19.0	0.0	0.14	S494	.	.	1
12	870723	1030	203	2	3	L	0.8	19.0	0.0	0.14	H118	4	3	1
12	870723	1035	203	3	3	L	0.8	19.0	0.0	0.14	S424	.	.	1
12	870723	1035	203	3	3	L	0.8	19.0	0.0	0.14	H631	.	.	10
12	870723	1035	203	3	3	L	0.8	19.0	0.0	0.14	S665	.	.	10
12	870723	1100	204	1	3	L	0.8	19.5	0.0	0.10	S424	.	.	1
12	870723	1100	204	1	3	L	0.8	19.5	0.0	0.10	H631	.	.	6
12	870723	1100	204	1	3	L	0.8	19.5	0.0	0.10	H143	.	.	2
12	870723	1100	204	1	3	L	0.8	19.5	0.0	0.10	H118	4	3	12
12	870723	1105	204	2	3	L	0.8	19.5	0.0	0.10	S424	.	.	1
12	870723	1105	204	2	3	L	0.8	19.5	0.0	0.10	S665	.	.	3
12	870723	1105	204	2	3	L	0.8	19.5	0.0	0.10	H118	4	3	8
12	870723	1105	204	2	3	L	0.8	19.5	0.0	0.10	H124	4	4	1
12	870723	1105	204	2	3	L	0.8	19.5	0.0	0.10	H108	4	6	1
12	870723	1110	204	3	3	L	0.8	19.5	0.0	0.10	S665	.	.	2
12	870723	1110	204	3	3	L	0.8	19.5	0.0	0.10	H118	4	3	3
12	870723	1110	204	3	3	L	0.8	19.5	0.0	0.10	S487	.	.	1
12	870723	1600	201	1	3	H	4.5	19.4	1.6	0.07	S665	.	.	3
12	870723	1600	201	1	3	H	4.5	19.4	1.6	0.07	H118	4	7	1
12	870723	1600	201	1	3	H	4.5	19.4	1.6	0.07	H124	4	7	1
12	870723	1605	201	2	3	H	4.5	19.4	1.6	0.07	S823	.	.	1
12	870723	1605	201	2	3	H	4.5	19.4	1.6	0.07	S665	.	.	42
12	870723	1605	201	2	3	H	4.5	19.4	1.6	0.07	S503	.	.	1
12	870723	1610	201	3	3	H	4.5	19.4	1.6	0.07	S424	.	.	2
12	870723	1610	201	3	3	H	4.5	19.4	1.6	0.07	S665	.	.	20
12	870723	1610	201	3	3	H	4.5	19.4	1.6	0.07	S503	.	.	33
12	870723	1630	202	1	3	H	4.5	19.7	1.8	0.07	S823	.	.	2
12	870723	1630	202	1	3	H	4.5	19.7	1.8	0.07	H631	.	.	1
12	870723	1630	202	1	3	H	4.5	19.7	1.8	0.07	S665	.	.	1
12	870723	1635	202	2	3	H	4.5	19.7	1.8	0.07	H631	.	.	1
12	870723	1640	202	3	3	H	4.5	19.7	1.8	0.07		.	.	0
12	870723	1650	203	1	3	H	4.5	20.3	0.6	0.00	S424	.	.	12
12	870723	1650	203	1	3	H	4.5	20.3	0.6	0.00	S665	.	.	5
12	870723	1650	203	1	3	H	4.5	20.3	0.6	0.00	H631	.	.	2
12	870723	1650	203	1	3	H	4.5	20.3	0.6	0.00	S523	.	.	4
12	870723	1650	203	1	3	H	4.5	20.3	0.6	0.00	S503	.	.	5
12	870723	1650	203	1	3	H	4.5	20.3	0.6	0.00	S494	.	.	3
12	870723	1650	203	1	3	H	4.5	20.3	0.6	0.00	S823	.	.	2
12	870723	1650	203	1	3	H	4.5	20.3	0.6	0.00	S999	.	.	1
12	870723	1655	203	2	3	H	4.5	20.3	0.6	0.00	S424	.	.	5
12	870723	1655	203	2	3	H	4.5	20.3	0.6	0.00	S665	.	.	3

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12	870723	1655	203	2	3	H	4.5	20.3	0.6	0.00	H631	.	.	13
12	870723	1655	203	2	3	H	4.5	20.3	0.6	0.00	S523	.	.	3
12	870723	1655	203	2	3	H	4.5	20.3	0.6	0.00	S487	.	.	1
12	870723	1655	203	2	3	H	4.5	20.3	0.6	0.00	S494	.	.	1
12	870723	1655	203	2	3	H	4.5	20.3	0.6	0.00	S823	.	.	2
12	870723	1655	203	2	3	H	4.5	20.3	0.6	0.00	H124	4	4	2
12	870723	1700	203	3	3	H	4.5	20.3	0.6	0.00	S424	.	.	3
12	870723	1700	203	3	3	H	4.5	20.3	0.6	0.00	S665	.	.	11
12	870723	1700	203	3	3	H	4.5	20.3	0.6	0.00	S823	.	.	2
12	870723	1715	204	1	3	H	4.5	18.3	0.0	0.14	H118	4	7	4
12	870723	1715	204	1	3	H	4.5	18.3	0.0	0.14	S665	.	.	3
12	870723	1715	204	1	3	H	4.5	18.3	0.0	0.14	S823	.	.	1
12	870723	1720	204	2	3	H	4.5	18.3	0.0	0.14	S665	.	.	2
12	870723	1720	204	2	3	H	4.5	18.3	0.0	0.14	S523	.	.	1
12	870723	1720	204	2	3	H	4.5	18.3	0.0	0.14	H631	.	.	2
12	870723	1720	204	2	3	H	4.5	18.3	0.0	0.14	S424	.	.	1
12	870723	1725	204	3	3	H	4.5	18.3	0.0	0.14	H118	4	7	4
12	870723	1725	204	3	3	H	4.5	18.3	0.0	0.14	S665	.	.	2
12	870723	1725	204	3	3	H	4.5	18.3	0.0	0.14	S424	.	.	8
13	870819	725	201	1	3	L	1.2	17.3	0.3	0.13	S503	.	.	6
13	870819	725	201	1	3	L	1.2	17.3	0.3	0.13	S424	.	.	7
13	870819	725	201	1	3	L	1.2	17.3	0.3	0.13	S291	.	.	2
13	870819	725	201	1	3	L	1.2	17.3	0.3	0.13	H118	4	4	1
13	870819	725	201	1	3	L	1.2	17.3	0.3	0.13	S823	.	.	5
13	870819	725	201	1	3	L	1.2	17.3	0.3	0.13	H631	.	.	4
13	870819	725	201	1	3	L	1.2	17.3	0.3	0.13	S544	.	.	1
13	870819	735	201	2	3	L	1.2	17.3	0.3	0.13	S503	.	.	17
13	870819	735	201	2	3	L	1.2	17.3	0.3	0.13	S424	.	.	6
13	870819	735	201	2	3	L	1.2	17.3	0.3	0.13	S823	.	.	9
13	870819	735	201	2	3	L	1.2	17.3	0.3	0.13	S036	.	.	1
13	870819	740	201	3	3	L	1.2	17.3	0.3	0.13	S503	.	.	1
13	870819	740	201	3	3	L	1.2	17.3	0.3	0.13	S665	.	.	2
13	870819	740	201	3	3	L	1.2	17.3	0.3	0.13	S487	.	.	3
13	870819	740	201	3	3	L	1.2	17.3	0.3	0.13	S544	.	.	1
13	870819	740	201	3	3	L	1.2	17.3	0.3	0.13	S823	.	.	1
13	870819	740	201	3	3	L	1.2	17.3	0.3	0.13	H118	4	4	1
13	870819	805	202	1	3	L	1.2	17.0	0.3	0.11	S424	.	.	48
13	870819	805	202	1	3	L	1.2	17.0	0.3	0.11	H124	4	4	1
13	870819	805	202	1	3	L	1.2	17.0	0.3	0.11	H631	.	.	30
13	870819	805	202	1	3	L	1.2	17.0	0.3	0.11	S665	.	.	2
13	870819	805	202	1	3	L	1.2	17.0	0.3	0.11	S823	.	.	5
13	870819	805	202	1	3	L	1.2	17.0	0.3	0.11	S487	.	.	1
13	870819	810	202	2	3	L	1.2	17.0	0.3	0.11	S536	.	.	1
13	870819	810	202	2	3	L	1.2	17.0	0.3	0.11	S544	.	.	1
13	870819	810	202	2	3	L	1.2	17.0	0.3	0.11	H631	.	.	17

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13	870819	810	202	2	3	L	1.2	17.0	0.3	0.11	S665	.	.	4
13	870819	810	202	2	3	L	1.2	17.0	0.3	0.11	S823	.	.	5
13	870819	810	202	2	3	L	1.2	17.0	0.3	0.11	S424	.	.	4
13	870819	820	202	3	3	L	1.2	17.0	0.3	0.11	H118	4	4	1
13	870819	820	202	3	3	L	1.2	17.0	0.3	0.11	S823	.	.	4
13	870819	820	202	3	3	L	1.2	17.0	0.3	0.11	S424	.	.	1
13	870819	820	202	3	3	L	1.2	17.0	0.3	0.11	S665	.	.	10
13	870819	820	202	3	3	L	1.2	17.0	0.3	0.11	S036	.	.	1
13	870819	820	202	3	3	L	1.2	17.0	0.3	0.11	H631	.	.	1
13	870819	840	203	1	3	L	1.2	17.4	0.3	0.27	S544	.	.	1
13	870819	840	203	1	3	L	1.2	17.4	0.3	0.27	S487	.	.	10
13	870819	840	203	1	3	L	1.2	17.4	0.3	0.27	S424	.	.	123
13	870819	840	203	1	3	L	1.2	17.4	0.3	0.27	S503	.	.	2
13	870819	840	203	1	3	L	1.2	17.4	0.3	0.27	S665	.	.	16
13	870819	840	203	1	3	L	1.2	17.4	0.3	0.27	S536	.	.	3
13	870819	840	203	1	3	L	1.2	17.4	0.3	0.27	H631	.	.	146
13	870819	840	203	1	3	L	1.2	17.4	0.3	0.27	S823	.	.	9
13	870819	840	203	1	3	L	1.2	17.4	0.3	0.27	S523	.	.	2
13	870819	840	203	1	3	L	1.2	17.4	0.3	0.27	H631	.	.	16
13	870819	845	203	2	3	L	1.2	17.4	0.3	0.27	H136	.	.	1
13	870819	845	203	2	3	L	1.2	17.4	0.3	0.27	S487	.	.	2
13	870819	845	203	2	3	L	1.2	17.4	0.3	0.27	S424	.	.	3
13	870819	845	203	2	3	L	1.2	17.4	0.3	0.27	S665	.	.	2
13	870819	845	203	2	3	L	1.2	17.4	0.3	0.27	S823	.	.	2
13	870819	845	203	2	3	L	1.2	17.4	0.3	0.27	S424	.	.	4
13	870819	855	203	3	3	L	1.2	17.4	0.3	0.27	H631	.	.	37
13	870819	855	203	3	3	L	1.2	17.4	0.3	0.27	S503	.	.	1
13	870819	855	203	3	3	L	1.2	17.4	0.3	0.27	S487	.	.	2
13	870819	855	203	3	3	L	1.2	17.4	0.3	0.27	S823	.	.	8
13	870819	855	203	3	3	L	1.2	17.4	0.3	0.27	S536	.	.	1
13	870819	855	203	3	3	L	1.2	17.4	0.3	0.27	S665	.	.	1
13	870819	855	203	3	3	L	1.2	17.4	0.3	0.27	S424	.	.	9
13	870819	930	204	1	3	L	1.2	17.4	0.9	0.05	S291	.	.	1
13	870819	930	204	1	3	L	1.2	17.4	0.9	0.05	S665	.	.	1
13	870819	930	204	1	3	L	1.2	17.4	0.9	0.05	H631	.	.	5
13	870819	930	204	1	3	L	1.2	17.4	0.9	0.05	S823	.	.	1
13	870819	930	204	1	3	L	1.2	17.4	0.9	0.05	S823	.	.	1
13	870819	940	204	2	3	L	1.2	17.4	0.9	0.05	S291	.	.	2
13	870819	950	204	3	3	L	1.2	17.4	0.9	0.05	H631	.	.	20
13	870819	950	204	3	3	L	1.2	17.4	0.9	0.05	S424	.	.	3
13	870819	950	204	3	3	L	1.2	17.4	0.9	0.05	S665	.	.	1
13	870819	1455	201	1	3	H	4.4	17.5	0.0	0.28	S823	.	.	2
13	870819	1500	201	2	3	H	4.4	17.5	0.0	0.28	S823	.	.	1
13	870819	1505	201	3	3	H	4.4	17.5	0.0	0.28	S503	.	.	4
13	870819	1520	202	1	3	H	4.4	17.4	0.0	0.04	S424	.	.	2

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13	870819	1520	202	1	3	H	4.4	17.4	0.0	0.04	H631	.	.	5
13	870819	1520	202	1	3	H	4.4	17.4	0.0	0.04	S823	.	.	1
13	870819	1520	202	1	3	H	4.4	17.4	0.0	0.04	S487	.	.	1
13	870819	1520	202	1	3	H	4.4	17.4	0.0	0.04	S665	.	.	1
13	870819	1530	202	2	3	H	4.4	17.4	0.0	0.04	S424	.	.	1
13	870819	1530	202	2	3	H	4.4	17.4	0.0	0.04	H631	.	.	1
13	870819	1535	202	3	3	H	4.4	17.4	0.0	0.04	S823	.	.	1
13	870819	1535	202	3	3	H	4.4	17.4	0.0	0.04	H631	.	.	1
13	870819	1550	203	1	3	H	4.4	18.1	0.0	0.03	S544	.	.	5
13	870819	1550	203	1	3	H	4.4	18.1	0.0	0.03	S424	.	.	4
13	870819	1550	203	1	3	H	4.4	18.1	0.0	0.03	S487	.	.	2
13	870819	1550	203	1	3	H	4.4	18.1	0.0	0.03	S536	.	.	2
13	870819	1550	203	1	3	H	4.4	18.1	0.0	0.03	S823	.	.	9
13	870819	1550	203	1	3	H	4.4	18.1	0.0	0.03	H631	.	.	6
13	870819	1555	203	2	3	H	4.4	18.1	0.0	0.03	H118	4	6	1
13	870819	1555	203	2	3	H	4.4	18.1	0.0	0.03	S424	.	.	5
13	870819	1555	203	2	3	H	4.4	18.1	0.0	0.03	S823	.	.	4
13	870819	1555	203	2	3	H	4.4	18.1	0.0	0.03	H631	.	.	4
13	870819	1600	203	3	3	H	4.4	18.1	0.0	0.03	S823	.	.	7
13	870819	1600	203	3	3	H	4.4	18.1	0.0	0.03	S424	.	.	8
13	870819	1600	203	3	3	H	4.4	18.1	0.0	0.03	H631	.	.	1
13	870819	1620	204	1	3	H	4.4	17.6	0.0	0.02	H128	4	6	1
13	870819	1620	204	1	3	H	4.4	17.6	0.0	0.02	S424	.	.	3
13	870819	1620	204	1	3	H	4.4	17.6	0.0	0.02	S665	.	.	1
13	870819	1625	204	2	3	H	4.4	17.6	0.0	0.02	H128	4	6	2
13	870819	1625	204	2	3	H	4.4	17.6	0.0	0.02	S424	.	.	6
13	870819	1625	204	2	3	H	4.4	17.6	0.0	0.02	S665	.	.	1
13	870819	1625	204	2	3	H	4.4	17.6	0.0	0.02	S544	.	.	2
13	870819	1625	204	2	3	H	4.4	17.6	0.0	0.02	S823	.	.	1
13	870819	1625	204	2	3	H	4.4	17.6	0.0	0.02	S291	.	.	1
13	870819	1635	204	3	3	H	4.4	17.6	0.0	0.02	S424	.	.	9
13	870819	1635	204	3	3	H	4.4	17.6	0.0	0.02	S665	.	.	2
14	870917	1400	201	1	3	H	4.3	16.0	.	0.38	S823	.	.	1
14	870917	1400	201	1	3	H	4.3	16.0	.	0.38	H631	.	.	4
14	870917	1406	201	2	3	H	4.3	16.0	.	0.38	H631	.	.	1
14	870917	1406	201	2	3	H	4.3	16.0	.	0.38	S424	.	.	2
14	870917	1409	201	3	3	H	4.3	16.0	.	0.38	S487	.	.	1
14	870917	1409	201	3	3	H	4.3	16.0	.	0.38	S424	.	.	6
14	870917	1409	201	3	3	H	4.3	16.0	.	0.38	S503	.	.	1
14	870917	1409	201	3	3	H	4.3	16.0	.	0.38	S665	.	.	2
14	870917	1430	202	1	3	H	4.3	16.0	.	0.06	H136	.	.	1
14	870917	1430	202	1	3	H	4.3	16.0	.	0.06	H118	4	3	1
14	870917	1430	202	1	3	H	4.3	16.0	.	0.06	S823	.	.	1
14	870917	1435	202	2	3	H	4.3	16.0	.	0.06	S665	.	.	6
14	870917	1435	202	2	3	H	4.3	16.0	.	0.06	S424	.	.	7

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TRIP	DATE	TIME	STN	SET	HAUL	TIDE	THGHT	TEMP	SAL	CURR	SPEC	GROUP	STAGE	CATCH
14	870917	1435	202	2	3	H	4.3	16.0	.	0.06	S291	.	.	1
14	870917	1445	202	3	3	H	4.3	16.0	.	0.06	S424	.	.	4
14	870917	1445	202	3	3	H	4.3	16.0	.	0.06	H631	.	.	4
14	870917	1500	203	1	3	H	4.3	17.0	.	0.00	S665	.	.	11
14	870917	1500	203	1	3	H	4.3	17.0	.	0.00	S424	.	.	4
14	870917	1500	203	1	3	H	4.3	17.0	.	0.00	H631	.	.	3
14	870917	1500	203	1	3	H	4.3	17.0	.	0.00	S823	.	.	2
14	870917	1500	203	1	3	H	4.3	17.0	.	0.00	H304	.	.	1
14	870917	1510	203	2	3	H	4.3	17.0	.	0.00	S424	.	.	20
14	870917	1510	203	2	3	H	4.3	17.0	.	0.00	H096	.	.	2
14	870917	1510	203	2	3	H	4.3	17.0	.	0.00	S665	.	.	2
14	870917	1510	203	2	3	H	4.3	17.0	.	0.00	H631	.	.	3
14	870917	1520	203	3	3	H	4.3	17.0	.	0.00	H518	.	.	1
14	870917	1520	203	3	3	H	4.3	17.0	.	0.00	S665	.	.	4
14	870917	1520	203	3	3	H	4.3	17.0	.	0.00	S424	.	.	13
14	870917	1520	203	3	3	H	4.3	17.0	.	0.00	H631	.	.	1
14	870917	1530	204	1	3	H	4.3	17.0	.	.	H631	.	.	2
14	870917	1530	204	1	3	H	4.3	17.0	.	.	S424	.	.	1
14	870917	1530	204	1	3	H	4.3	17.0	.	.	H118	4	3	1
14	870917	1545	204	2	3	H	4.3	17.0	.	.	S424	.	.	2
14	870917	1545	204	2	3	H	4.3	17.0	.	.	S665	.	.	112
14	870917	1555	204	3	3	H	4.3	17.0	.	.	S665	.	.	10
14	870917	1555	204	3	3	H	4.3	17.0	.	.	H631	.	.	46
14	870918	805	201	1	3	L	1.5	16.0	.	0.19	S424	.	.	65
14	870918	805	201	1	3	L	1.5	16.0	.	0.19	H631	.	.	53
14	870918	805	201	1	3	L	1.5	16.0	.	0.19	H518	.	.	2
14	870918	805	201	1	3	L	1.5	16.0	.	0.19	S823	.	.	15
14	870918	805	201	1	3	L	1.5	16.0	.	0.19	S487	.	.	1
14	870918	805	201	1	3	L	1.5	16.0	.	0.19	S291	.	.	1
14	870918	805	201	1	3	L	1.5	16.0	.	0.19	S503	.	.	18
14	870918	805	201	1	3	L	1.5	16.0	.	0.19	S544	.	.	3
14	870918	820	201	2	3	L	1.5	16.0	.	0.19	S823	.	.	28
14	870918	820	201	2	3	L	1.5	16.0	.	0.19	H631	.	.	6
14	870918	820	201	2	3	L	1.5	16.0	.	0.19	S665	.	.	1
14	870918	820	201	2	3	L	1.5	16.0	.	0.19	S036	.	.	2
14	870918	820	201	2	3	L	1.5	16.0	.	0.19	H518	.	.	1
14	870918	820	201	2	3	L	1.5	16.0	.	0.19	S424	.	.	2
14	870918	820	201	2	3	L	1.5	16.0	.	0.19	S503	.	.	1
14	870918	830	201	3	3	L	1.5	16.0	.	0.19	S823	.	.	2
14	870918	830	201	3	3	L	1.5	16.0	.	0.19	S487	.	.	1
14	870918	830	201	3	3	L	1.5	16.0	.	0.19	S665	.	.	1
14	870918	830	201	3	3	L	1.5	16.0	.	0.19	H631	.	.	1
14	870918	830	201	3	3	L	1.5	16.0	.	0.19	S503	.	.	3
14	870918	850	202	1	3	L	1.5	15.5	.	0.03	H128	4	6	1
14	870918	850	202	1	3	L	1.5	15.5	.	0.03	H631	.	.	7

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TRIP	DATE	TIME	STN	SET	HAUL	TIDE	THGHT	TEMP	SAL	CURR	SPEC	GROUP	STAGE	CATCH
14	870918	850	202	1	3	L	1.5	15.5	.	0.03	S823	.	.	14
14	870918	850	202	1	3	L	1.5	15.5	.	0.03	S503	.	.	1
14	870918	850	202	1	3	L	1.5	15.5	.	0.03	S424	.	.	2
14	870918	850	202	1	3	L	1.5	15.5	.	0.03	S036	.	.	1
14	870918	910	202	2	3	L	1.5	15.5	.	0.03	S424	.	.	1
14	870918	910	202	2	3	L	1.5	15.5	.	0.03	H631	.	.	4
14	870918	910	202	2	3	L	1.5	15.5	.	0.03	H518	.	.	1
14	870918	910	202	2	3	L	1.5	15.5	.	0.03	S823	.	.	4
14	870918	910	202	2	3	L	1.5	15.5	.	0.03	H146	.	.	4
14	870918	910	202	2	3	L	1.5	15.5	.	0.03	H143	.	.	3
14	870918	910	202	2	3	L	1.5	15.5	.	0.03	S665	.	.	11
14	870918	925	203	1	3	L	1.5	16.0	.	0.02	H631	.	.	23
14	870918	925	203	1	3	L	1.5	16.0	.	0.02	S544	.	.	1
14	870918	925	203	1	3	L	1.5	16.0	.	0.02	S424	.	.	7
14	870918	925	203	1	3	L	1.5	16.0	.	0.02	S665	.	.	40
14	870918	925	203	1	3	L	1.5	16.0	.	0.02	H146	.	.	1
14	870918	925	203	1	3	L	1.5	16.0	.	0.02	S823	.	.	2
14	870918	925	203	1	3	L	1.5	16.0	.	0.02	S487	.	.	1
14	870918	920	202	3	3	L	1.5	15.5	.	0.03	H118	4	3	1
14	870918	920	202	3	3	L	1.5	15.5	.	0.03	H518	.	.	1
14	870918	920	202	3	3	L	1.5	15.5	.	0.03	S665	.	.	2
14	870918	920	202	3	3	L	1.5	15.5	.	0.03	S823	.	.	1
14	870918	920	202	3	3	L	1.5	15.5	.	0.03	S424	.	.	1
14	870918	930	203	2	3	L	1.5	16.0	.	0.02	H631	.	.	2
14	870918	930	203	2	3	L	1.5	16.0	.	0.02	S823	.	.	5
14	870918	930	203	2	3	L	1.5	16.0	.	0.02	S424	.	.	2
14	870918	930	203	2	3	L	1.5	16.0	.	0.02	S665	.	.	12
14	870918	930	203	2	3	L	1.5	16.0	.	0.02	S503	.	.	2
14	870918	930	203	2	3	L	1.5	16.0	.	0.02	S544	.	.	1
14	870918	940	203	3	3	L	1.5	16.0	.	0.02	S424	.	.	8
14	870918	940	203	3	3	L	1.5	16.0	.	0.02	S665	.	.	16
14	870918	940	203	3	3	L	1.5	16.0	.	0.02	H518	.	.	2
14	870918	940	203	3	3	L	1.5	16.0	.	0.02	H631	.	.	3
14	870918	955	204	1	3	L	1.5	16.0	.	0.02	H128	4	6	2
14	870918	955	204	1	3	L	1.5	16.0	.	0.02	H108	4	6	1
14	870918	955	204	1	3	L	1.5	16.0	.	0.02	S823	.	.	1
14	870918	955	204	1	3	L	1.5	16.0	.	0.02	H631	.	.	1
14	870918	1010	204	2	3	L	1.5	16.0	.	0.02	H146	.	.	15
14	870918	1010	204	2	3	L	1.5	16.0	.	0.02	H143	.	.	14
14	870918	1010	204	2	3	L	1.5	16.0	.	0.02	S823	.	.	1
14	870918	1010	204	2	3	L	1.5	16.0	.	0.02	H631	.	.	2
14	870918	1010	204	2	3	L	1.5	16.0	.	0.02	S665	.	.	1
14	870918	1015	204	3	3	L	1.5	16.0	.	0.02	H143	.	.	19
14	870918	1015	204	3	3	L	1.5	16.0	.	0.02	H146	.	.	25
14	870918	1015	204	3	3	L	1.5	16.0	.	0.02	S036	.	.	1

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TRIP	DATE	TIME	STN	SET	HAUL	TIDE	THGHT	TEMP	SAL	CURR	SPEC	GROUP	STAGE	CATCH
15	871015	1230	201	1	3	H	4.3	12.0	.	0.84		.	.	0
15	871015	1238	201	2	3	H	4.3	12.0	.	0.84	S823	.	.	1
15	871015	1255	201	3	3	H	4.3	12.0	.	0.84	S665	.	.	1
15	871015	1315	202	1	3	H	4.3	12.0	.	.	H631	.	.	4
15	871015	1315	202	1	3	H	4.3	12.0	.	.	H143	.	.	7
15	871015	1315	202	1	3	H	4.3	12.0	.	.	H518	.	.	1
15	871015	1315	202	1	3	H	4.3	12.0	.	.	S503	.	.	1
15	871015	1315	202	1	3	H	4.3	12.0	.	.	S665	.	.	1
15	871015	1325	202	2	3	H	4.3	12.0	.	.		.	.	0
15	871015	1330	202	3	3	H	4.3	12.0	.	.	H518	.	.	1
15	871015	1330	202	3	3	H	4.3	12.0	.	.	S665	.	.	1
15	871015	1335	203	1	3	H	4.3	12.0	.	0.00	H631	.	.	4
15	871015	1335	203	1	3	H	4.3	12.0	.	0.00	H304	.	.	3
15	871015	1345	203	2	3	H	4.3	12.0	.	0.00	H631	.	.	6
15	871015	1345	203	2	3	H	4.3	12.0	.	0.00	H304	.	.	1
15	871015	1345	203	2	3	H	4.3	12.0	.	0.00	S665	.	.	9
15	871015	1345	203	2	3	H	4.3	12.0	.	0.00	H128	4	6	1
15	871015	1345	203	2	3	H	4.3	12.0	.	0.00	S424	.	.	4
15	871015	1345	203	2	3	H	4.3	12.0	.	0.00	S503	.	.	1
15	871015	1355	203	3	3	H	4.3	12.0	.	0.00	H631	.	.	3
15	871015	1355	203	3	3	H	4.3	12.0	.	0.00	H304	.	.	1
15	871015	1355	203	3	3	H	4.3	12.0	.	0.00	S424	.	.	1
15	871015	1355	203	3	3	H	4.3	12.0	.	0.00	H518	.	.	1
15	871015	1415	204	1	3	H	4.3	12.0	.	0.05	S665	.	.	1
15	871015	1420	204	2	3	H	4.3	12.0	.	0.05	S424	.	.	2
15	871015	1420	204	2	3	H	4.3	12.0	.	0.05	H631	.	.	1
15	871015	1425	204	3	3	H	4.3	12.0	.	0.05	H518	.	.	1
15	871015	1425	204	3	3	H	4.3	12.0	.	0.05	S665	.	.	1
16	871120	904	204	1	3	L	3.3	.	.	0.24	H143	.	.	62
16	871120	904	204	1	3	L	3.3	.	.	0.24	H096	.	.	2
16	871120	904	204	1	3	L	3.3	.	.	0.24	S665	.	.	4
16	871120	912	204	2	3	L	3.3	.	.	0.24	S665	.	.	1
16	871120	912	204	2	3	L	3.3	.	.	0.24	H518	.	.	1
16	871120	925	204	3	3	L	3.3	.	.	0.24	H143	.	.	9
16	871120	925	204	3	3	L	3.3	.	.	0.24	H518	.	.	2
16	871120	925	204	3	3	L	3.3	.	.	0.24	H631	.	.	7
16	871120	943	203	1	3	L	3.3	.	.	0.05	H631	.	.	4
16	871120	943	203	1	3	L	3.3	.	.	0.05	H518	.	.	2
16	871120	956	203	2	3	L	3.3	.	.	0.05	H631	.	.	3
16	871120	956	203	2	3	L	3.3	.	.	0.05	S665	.	.	1
16	871120	1002	203	3	3	L	3.3	.	.	0.05	H631	.	.	1
16	871120	1002	203	3	3	L	3.3	.	.	0.05	H518	.	.	1
16	871120	1002	203	3	3	L	3.3	.	.	0.05	S665	.	.	2
16	871120	1002	203	3	3	L	3.3	.	.	0.05	S424	.	.	2
16	871120	1002	203	3	3	L	3.3	.	.	0.05	H096	.	.	5

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TRIP	DATE	TIME	STN	SET	HAUL	TIDE	THGHT	TEMP	SAL	CURR	SPEC	GROUP	STAGE	CATCH
16	871120	1002	203	3	3	L	3.3	.	.	0.05	H143	.	.	7
16	871120	1002	203	3	3	L	3.3	.	.	0.05	S823	.	.	1
16	871120	1026	202	1	3	L	3.3	.	.	0.04	H096	.	.	10
16	871120	1026	202	1	3	L	3.3	.	.	0.04	H136	.	.	6
16	871120	1026	202	1	3	L	3.3	.	.	0.04	H631	.	.	2
16	871120	1026	202	1	3	L	3.3	.	.	0.04	S665	.	.	1
16	871120	1033	202	2	3	L	3.3	.	.	0.04	S665	.	.	5
16	871120	1033	202	2	3	L	3.3	.	.	0.04	H631	.	.	7
16	871120	1043	202	3	3	L	3.3	.	.	0.04	H136	.	.	7
16	871120	1043	202	3	3	L	3.3	.	.	0.04	S665	.	.	4
16	871120	1105	201	1	3	L	3.3	.	.	0.10	H631	.	.	6
16	871120	1105	201	1	3	L	3.3	.	.	0.10	H096	.	.	13
16	871120	1105	201	1	3	L	3.3	.	.	0.10	S665	.	.	1
16	871120	1105	201	1	3	L	3.3	.	.	0.10	H136	.	.	1
16	871120	1105	201	1	3	L	3.3	.	.	0.10	H518	.	.	1
16	871120	1111	201	2	3	L	3.3	.	.	0.10	H631	.	.	9
16	871120	1111	201	2	3	L	3.3	.	.	0.10	H136	.	.	223
16	871120	1117	201	3	3	L	3.3	.	.	0.10	H631	.	.	2
16	871125	1417	204	1	3	H	3.6	7.5	.	0.10	H139	.	.	1
16	871125	1417	204	1	3	H	3.6	7.5	.	0.10	S665	.	.	7
16	871125	1417	204	1	3	H	3.6	7.5	.	0.10	H108	4	6	1
16	871125	1417	204	1	3	H	3.6	7.5	.	0.10	H096	.	.	1
16	871125	1423	204	2	3	H	3.6	7.5	.	0.10	H139	.	.	5
16	871125	1423	204	2	3	H	3.6	7.5	.	0.10	S665	.	.	2
16	871125	1423	204	2	3	H	3.6	7.5	.	0.10	H631	.	.	2
16	871125	1423	204	2	3	H	3.6	7.5	.	0.10	H143	.	.	1
16	871125	1430	204	3	3	H	3.6	7.5	.	0.10	H139	.	.	27
16	871125	1430	204	3	3	H	3.6	7.5	.	0.10	S665	.	.	3
16	871125	1430	204	3	3	H	3.6	7.5	.	0.10	H518	.	.	1
16	871125	1430	204	3	3	H	3.6	7.5	.	0.10	H631	.	.	1
16	871125	1430	204	3	3	H	3.6	7.5	.	0.10	H143	.	.	3
16	871125	1444	203	1	3	H	3.6	7.5	.	0.01	H631	.	.	13
16	871125	1453	203	2	3	H	3.6	7.5	.	0.01	H631	.	.	8
16	871125	1453	203	2	3	H	3.6	7.5	.	0.01	H518	.	.	2
16	871125	1453	203	2	3	H	3.6	7.5	.	0.01	S665	.	.	3
16	871125	1453	203	2	3	H	3.6	7.5	.	0.01	S823	.	.	2
16	871125	1453	203	2	3	H	3.6	7.5	.	0.01	S503	.	.	1
16	871125	1501	203	3	3	H	3.6	7.5	.	0.01	H631	.	.	8
16	871125	1501	203	3	3	H	3.6	7.5	.	0.01	H518	.	.	3
16	871125	1521	202	1	3	H	3.6	8.0	.	0.30	S665	.	.	120
16	871125	1521	202	1	3	H	3.6	8.0	.	0.30	H143	.	.	8
16	871125	1521	202	1	3	H	3.6	8.0	.	0.30	S036	.	.	1
16	871125	1521	202	1	3	H	3.6	8.0	.	0.30	H631	.	.	3
16	871125	1521	202	1	3	H	3.6	8.0	.	0.30	H518	.	.	1
16	871125	1528	202	2	3	H	3.6	8.0	.	0.30	S665	.	.	5

CATCH DATA - FRASER RIVER
MAIN ARM 1987 - 1988

TRIP	DATE	TIME	STN	SET	HAUL	TIDE	THGHT	TEMP	SAL	CURR	SPEC	GROUP	STAGE	CATCH
16	871125	1528	202	2	3	H	3.6	8.0	.	0.30	H143	.	.	1
16	871125	1528	202	2	3	H	3.6	8.0	.	0.30	H631	.	.	1
16	871125	1528	202	2	3	H	3.6	8.0	.	0.30	H518	.	.	1
16	871125	1528	202	2	3	H	3.6	8.0	.	0.30	H096	.	.	2
16	871125	1537	202	3	3	H	3.6	8.0	.	0.30	S665	.	.	6
16	871125	1537	202	3	3	H	3.6	8.0	.	0.30	H143	.	.	1
16	871125	1537	202	3	3	H	3.6	8.0	.	0.30	H631	.	.	2
16	871125	1537	202	3	3	H	3.6	8.0	.	0.30	S823	.	.	1
16	871125	1555	201	1	3	H	3.6	8.0	.	0.06	H146	.	.	1
16	871125	1555	201	1	3	H	3.6	8.0	.	0.06	H531	.	.	1
16	871125	1555	201	1	3	H	3.6	8.0	.	0.06	S665	.	.	2
16	871125	1601	201	2	3	H	3.6	8.0	.	0.06	H631	.	.	2
16	871125	1606	201	3	3	H	3.6	8.0	.	0.06	H136	.	.	14
16	871125	1606	201	3	3	H	3.6	8.0	.	0.06	S823	.	.	1
1	880119	1445	201	1	3	H	4.4	3.3	0.9	0.03		.	.	0
1	880119	1450	201	2	3	H	4.4	3.3	0.9	0.03	H146	.	.	4
1	880119	1450	201	2	3	H	4.4	3.3	0.9	0.03	S665	.	.	1
1	880119	1505	201	3	3	H	4.4	3.3	0.9	0.03	H146	.	.	10
1	880119	1505	201	3	3	H	4.4	3.3	0.9	0.03	S665	.	.	1
1	880119	1515	202	1	3	H	4.4	3.1	1.6	0.05	H146	.	.	1
1	880119	1515	202	1	3	H	4.4	3.1	1.6	0.05	H631	.	.	1
1	880119	1520	202	2	3	H	4.4	3.1	1.6	0.05		.	.	0
1	880119	1525	202	3	3	H	4.4	3.1	1.6	0.05		.	.	0
1	880119	1555	203	1	3	H	4.4	2.7	2.4	0.08	H518	.	.	1
1	880119	1555	203	1	3	H	4.4	2.7	2.4	0.08	H631	.	.	1
1	880119	1600	203	2	3	H	4.4	2.7	2.4	0.08		.	.	0
1	880119	1607	203	3	3	H	4.4	2.7	2.4	0.08	H518	.	.	1
1	880119	1607	203	3	3	H	4.4	2.7	2.4	0.08	H146	.	.	2
1	880119	1607	203	3	3	H	4.4	2.7	2.4	0.08	S665	.	.	1
1	880119	1615	204	1	3	H	4.4	3.1	1.3	0.04	S665	.	.	1
1	880119	1630	204	2	3	H	4.4	3.1	1.3	0.04	S665	.	.	2
1	880119	1640	204	3	3	H	4.4	3.1	1.3	0.04	H631	.	.	1
2	880218	1414	201	1	3	L	2.7	4.2	0.1	0.06	H146	.	.	4
2	880218	1414	201	1	3	L	2.7	4.2	0.1	0.06	H631	.	.	5
2	880218	1414	201	1	3	L	2.7	4.2	0.1	0.06	S665	.	.	6
2	880218	1414	201	1	3	L	2.7	4.2	0.1	0.06	H108	4	3	2
2	880218	1414	201	1	3	L	2.7	4.2	0.1	0.06	H112	4	3	1
2	880218	1426	201	2	3	L	2.7	4.2	0.1	0.06	H146	.	.	11
2	880218	1426	201	2	3	L	2.7	4.2	0.1	0.06	H631	.	.	1
2	880218	1426	201	2	3	L	2.7	4.2	0.1	0.06	S665	.	.	4
2	880218	1426	201	2	3	L	2.7	4.2	0.1	0.06	H108	4	3	1
2	880218	1426	201	2	3	L	2.7	4.2	0.1	0.06	H112	4	3	1
2	880218	1435	201	3	3	L	2.7	4.2	0.1	0.06	H146	.	.	1
2	880218	1435	201	3	3	L	2.7	4.2	0.1	0.06	S665	.	.	1
2	880218	1450	202	1	3	L	2.7	4.2	0.6	0.02	H631	.	.	1

CATCH DATA - FRASER RIVER
MAIN ARM 1987 - 1988

TRIP	DATE	TIME	STN	SET	HAUL	TIDE	THGHT	TEMP	SAL	CURR	SPEC	GROUP	STAGE	CATCH
2	880218	1450	202	1	3	L	2.7	4.2	0.6	0.02	S665	.	.	1
2	880218	1450	202	1	3	L	2.7	4.2	0.6	0.02	H146	.	.	1
2	880218	1454	202	2	3	L	2.7	4.2	0.6	0.02	H631	.	.	5
2	880218	1454	202	2	3	L	2.7	4.2	0.6	0.02	S665	.	.	1
2	880218	1454	202	2	3	L	2.7	4.2	0.6	0.02	H108	4	3	2
2	880218	1502	202	3	3	L	2.7	4.2	0.6	0.02	H631	.	.	3
2	880218	1502	202	3	3	L	2.7	4.2	0.6	0.02	S665	.	.	1
2	880218	1502	202	3	3	L	2.7	4.2	0.6	0.02	H146	.	.	4
2	880218	1502	202	3	3	L	2.7	4.2	0.6	0.02	H518	.	.	1
2	880218	1515	204	1	3	L	2.7	4.2	0.5	0.02	H112	4	3	3
2	880218	1515	204	1	3	L	2.7	4.2	0.5	0.02	S665	.	.	2
2	880218	1515	204	1	3	L	2.7	4.2	0.5	0.02	H631	.	.	1
2	880218	1524	204	2	3	L	2.7	4.2	0.5	0.02	H631	.	.	2
2	880218	1524	204	2	3	L	2.7	4.2	0.5	0.02	S665	.	.	3
2	880218	1524	204	2	3	L	2.7	4.2	0.5	0.02	H146	.	.	4
2	880218	1533	204	3	3	L	2.7	4.2	0.5	0.02	H631	.	.	1
2	880218	1552	203	1	3	L	2.7	4.1	2.4	0.03	H146	.	.	12
2	880218	1552	203	1	3	L	2.7	4.1	2.4	0.03	H112	4	3	1
2	880218	1552	203	1	3	L	2.7	4.1	2.4	0.03	H518	.	.	2
2	880218	1601	203	2	3	L	2.7	4.1	2.4	0.03	H146	.	.	2
2	880218	1601	203	2	3	L	2.7	4.1	2.4	0.03	H112	4	3	1
2	880218	1601	203	2	3	L	2.7	4.1	2.4	0.03	H518	.	.	3
2	880218	1601	203	2	3	L	2.7	4.1	2.4	0.03	S665	.	.	2
2	880218	1609	203	3	3	L	2.7	4.1	2.4	0.03	S823	.	.	1
2	880218	1609	203	3	3	L	2.7	4.1	2.4	0.03	H518	.	.	1
2	880218	1609	203	3	3	L	2.7	4.1	2.4	0.03	S665	.	.	1

Table 4. Agassiz catch data.

CATCH DATA - FRASER RIVER
AGASSIZ 1987 - 1988

TRIP	DATE	TIME	STN	SET	HAUL	SECCHI	TEMP	CURR	SPEC	GROUP	STAGE	CATCH
1	870415	850	301	1	3	.	.	.	H124	4	7	7
1	870415	850	301	1	3	.	.	.	S291	.	.	1
1	870415	850	301	1	3	.	.	.	H112	4	7	1
1	870415	905	301	2	3	.	.	.	H124	4	7	4
1	870415	905	301	2	3	.	.	.	S291	.	.	2
1	870415	905	301	2	3	.	.	.	S487	.	.	1
1	870415	905	301	2	3	.	.	.	S523	.	.	1
1	870415	905	301	2	3	.	.	.	S503	.	.	10
1	870415	905	301	2	3	.	.	.	S823	.	.	7
1	870415	920	301	3	3	.	.	.	H124	4	7	7
1	870415	920	301	3	3	.	.	.	H127	4	7	1
1	870415	920	301	3	3	.	.	.	H112	4	7	3
1	870415	920	301	3	3	.	.	.	S503	.	.	3
1	870415	920	301	3	3	.	.	.	S823	.	.	2
1	870415	920	301	3	3	.	.	.	S494	.	.	25
1	870415	920	301	3	3	.	.	.	S291	.	.	4
1	870415	920	301	3	3	.	.	.	S424	.	.	5
1	870415	920	301	3	3	.	.	.	S523	.	.	7
1	870415	920	301	3	3	.	.	.	S487	.	.	2
1	870415	940	302	1	2	.	.	.	H124	1	7	1
1	870415	940	302	1	2	.	.	.	H124	4	7	6
1	870415	940	302	1	2	.	.	.	S291	.	.	8
1	870415	940	302	1	2	.	.	.	H128	4	7	2
1	870415	940	302	1	2	.	.	.	S523	.	.	7
1	870415	940	302	1	2	.	.	.	S823	.	.	9
1	870415	940	302	1	2	.	.	.	S487	.	.	2
1	870415	940	302	1	2	.	.	.	S424	.	.	6
1	870415	940	302	1	2	.	.	.	S494	.	.	4
1	870415	952	302	2	2	.	.	.	S487	.	.	1
1	870415	952	302	2	2	.	.	.	S823	.	.	6
1	870415	952	302	2	2	.	.	.	S494	.	.	1
1	870415	952	302	2	2	.	.	.	S291	.	.	1
1	870415	1008	303	1	3	.	.	.	S523	.	.	2
1	870415	1008	303	1	3	.	.	.	S494	.	.	11
1	870415	1008	303	1	3	.	.	.	S291	.	.	3
1	870415	1008	303	1	3	.	.	.	S424	.	.	4
1	870415	1008	303	1	3	.	.	.	H112	4	3	106
1	870415	1008	303	1	3	.	.	.	H124	4	7	6
1	870415	1008	303	1	3	.	.	.	H118	4	7	2
1	870415	1020	303	2	3	.	.	.	H124	4	7	5
1	870415	1020	303	2	3	.	.	.	H112	4	7	26
1	870415	1020	303	2	3	.	.	.	S291	.	.	4
1	870415	1020	303	2	3	.	.	.	S503	.	.	1
1	870415	1020	303	2	3	.	.	.	S494	.	.	41
1	870415	1020	303	2	3	.	.	.	S424	.	.	2

CATCH DATA - FRASER RIVER
AGASSIZ 1987 - 1988

TRIP	DATE	TIME	STN	SET	HAUL	SECCHI	TEMP	CURR	SPEC	GROUP	STAGE	CATCH
1	870415	1035	303	3	3	.	.	.	H118	4	7	2
1	870415	1035	303	3	3	.	.	.	H124	4	7	1
1	870415	1035	303	3	3	.	.	.	S503	.	.	10
1	870415	1035	303	3	3	.	.	.	H112	4	7	2
1	870415	1035	303	3	3	.	.	.	S291	.	.	2
1	870415	1104	304	1	3	.	.	.	S503	.	.	45
1	870415	1104	304	1	3	.	.	.	S424	.	.	41
1	870415	1104	304	1	3	.	.	.	S487	.	.	1
1	870415	1104	304	1	3	.	.	.	S523	.	.	3
1	870415	1104	304	1	3	.	.	.	S494	.	.	25
1	870415	1104	304	1	3	.	.	.	S823	.	.	1
1	870415	1104	304	1	3	.	.	.	S665	.	.	4
1	870415	1104	304	1	3	.	.	.	H112	4	3	5
1	870415	1104	304	1	3	.	.	.	H124	4	7	8
1	870415	1115	304	2	3	.	.	.	S503	.	.	10
1	870415	1115	304	2	3	.	.	.	S424	.	.	9
1	870415	1115	304	2	3	.	.	.	S494	.	.	33
1	870415	1115	304	2	3	.	.	.	S523	.	.	1
1	870415	1115	304	2	3	.	.	.	H112	4	3	2
1	870415	1115	304	2	3	.	.	.	H124	4	3	1
1	870415	1122	304	3	3	.	.	.	S503	.	.	11
1	870415	1122	304	3	3	.	.	.	S424	.	.	11
1	870415	1122	304	3	3	.	.	.	S494	.	.	29
1	870415	1122	304	3	3	.	.	.	S523	.	.	3
1	870415	1122	304	3	3	.	.	.	S291	.	.	1
1	870415	1122	304	3	3	.	.	.	S823	.	.	1
1	870415	1122	304	3	3	.	.	.	H112	4	3	2
1	870415	1122	304	3	3	.	.	.	H124	4	3	3
1	870415	1210	305	1	3	.	.	.	S523	.	.	7
1	870415	1210	305	1	3	.	.	.	S291	.	.	2
1	870415	1210	305	1	3	.	.	.	S823	.	.	6
1	870415	1210	305	1	3	.	.	.	S424	.	.	4
1	870415	1210	305	1	3	.	.	.	S503	.	.	2
1	870415	1210	305	1	3	.	.	.	S494	.	.	31
1	870415	1210	305	1	3	.	.	.	S487	.	.	1
1	870415	1210	305	1	3	.	.	.	H128	4	7	1
1	870415	1210	305	1	3	.	.	.	H112	4	3	1
1	870415	1210	305	1	3	.	.	.	H124	4	4	2
1	870415	1225	305	2	3	.	.	.	S523	.	.	9
1	870415	1225	305	2	3	.	.	.	S494	.	.	28
1	870415	1225	305	2	3	.	.	.	S424	.	.	8
1	870415	1225	305	2	3	.	.	.	S503	.	.	16
1	870415	1225	305	2	3	.	.	.	S487	.	.	4
1	870415	1225	305	2	3	.	.	.	S823	.	.	4
1	870415	1225	305	2	3	.	.	.	H124	4	7	6

CATCH DATA - FRASER RIVER
AGASSIZ 1987 - 1988

TRIP	DATE	TIME	STN	SET	HAUL	SECCHI	TEMP	CURR	SPEC	GROUP	STAGE	CATCH
1	870415	1225	305	2	3	.	.	.	H112	4	3	1
1	870415	1233	305	3	3	.	.	.	H127	4	6	1
1	870415	1233	305	3	3	.	.	.	S523	.	.	10
1	870415	1233	305	3	3	.	.	.	S291	.	.	3
1	870415	1233	305	3	3	.	.	.	S494	.	.	31
1	870415	1233	305	3	3	.	.	.	S823	.	.	12
1	870415	1233	305	3	3	.	.	.	S424	.	.	15
1	870415	1233	305	3	3	.	.	.	H124	4	7	8
1	870415	1233	305	3	3	.	.	.	H112	4	3	1
2	870501	815	301	1	3	.	9.5	.	H124	4	3	15
2	870501	815	301	1	3	.	9.5	.	H128	4	6	1
2	870501	815	301	1	3	.	9.5	.	H115	4	3	1
2	870501	815	301	1	3	.	9.5	.	S823	.	.	9
2	870501	815	301	1	3	.	9.5	.	S503	.	.	22
2	870501	815	301	1	3	.	9.5	.	S424	.	.	1
2	870501	815	301	1	3	.	9.5	.	S536	.	.	18
2	870501	815	301	1	3	.	9.5	.	S494	.	.	54
2	870501	825	301	2	3	.	9.5	.	H124	4	7	20
2	870501	825	301	2	3	.	9.5	.	H112	4	3	4
2	870501	825	301	2	3	.	9.5	.	S823	.	.	8
2	870501	825	301	2	3	.	9.5	.	S503	.	.	3
2	870501	825	301	2	3	.	9.5	.	S536	.	.	6
2	870501	825	301	2	3	.	9.5	.	S494	.	.	26
2	870501	825	301	2	3	.	9.5	.	S544	.	.	1
2	870501	825	301	2	3	.	9.5	.	H118	4	7	2
2	870501	836	301	3	3	.	9.5	.	H124	4	3	14
2	870501	836	301	3	3	.	9.5	.	H118	4	7	4
2	870501	836	301	3	3	.	9.5	.	S536	.	.	2
2	870501	836	301	3	3	.	9.5	.	S494	.	.	46
2	870501	836	301	3	3	.	9.5	.	S823	.	.	14
2	870501	900	302	1	3	.	9.0	.	S544	.	.	5
2	870501	900	302	1	3	.	9.0	.	S291	.	.	12
2	870501	900	302	1	3	.	9.0	.	H124	4	3	4
2	870501	900	302	1	3	.	9.0	.	S487	.	.	12
2	870501	900	302	1	3	.	9.0	.	H128	4	7	1
2	870501	900	302	1	3	.	9.0	.	S424	.	.	2
2	870501	900	302	1	3	.	9.0	.	S494	.	.	15
2	870501	900	302	1	3	.	9.0	.	S503	.	.	6
2	870501	900	302	1	3	.	9.0	.	S823	.	.	15
2	870501	910	302	2	3	.	9.0	.	S487	.	.	2
2	870501	910	302	2	3	.	9.0	.	S494	.	.	9
2	870501	910	302	2	3	.	9.0	.	S823	.	.	8
2	870501	910	302	2	3	.	9.0	.	H124	4	7	11
2	870501	925	302	3	3	.	9.0	.	H124	4	3	2
2	870501	925	302	3	3	.	9.0	.	S494	.	.	7

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TRIP	DATE	TIME	STN	SET	HAUL	SECCHI	TEMP	CURR	SPEC	GROUP	STAGE	CATCH
2	870501	925	302	3	3	.	9.0	.	S823	.	.	6
2	870501	925	302	3	3	.	9.0	.	S487	.	.	7
2	870501	925	302	3	3	.	9.0	.	S291	.	.	1
2	870501	925	302	3	3	.	9.0	.	S544	.	.	1
2	870501	925	302	3	3	.	9.0	.	S503	.	.	1
2	870501	940	303	1	3	.	9.0	.	H124	4	7	23
2	870501	940	303	1	3	.	9.0	.	S503	.	.	11
2	870501	940	303	1	3	.	9.0	.	H118	4	7	9
2	870501	940	303	1	3	.	9.0	.	S494	.	.	2
2	870501	940	303	1	3	.	9.0	.	S823	.	.	1
2	870501	950	303	2	3	.	9.0	.	H124	4	7	10
2	870501	950	303	2	3	.	9.0	.	H118	4	4	5
2	870501	950	303	2	3	.	9.0	.	S503	.	.	18
2	870501	950	303	2	3	.	9.0	.	H112	4	7	2
2	870501	950	303	2	3	.	9.0	.	S494	.	.	3
2	870501	1000	303	3	3	.	9.0	.	H124	4	3	14
2	870501	1000	303	3	3	.	9.0	.	H118	4	4	11
2	870501	1000	303	3	3	.	9.0	.	S503	.	.	19
2	870501	1000	303	3	3	.	9.0	.	H112	4	7	2
2	870501	1000	303	3	3	.	9.0	.	S494	.	.	7
2	870501	1000	303	3	3	.	9.0	.	S823	.	.	2
2	870501	1000	303	3	3	.	9.0	.	S487	.	.	1
2	870501	1000	303	3	3	.	9.0	.	H115	4	4	1
2	870501	1040	304	1	3	.	9.5	.	S424	.	.	1
2	870501	1040	304	1	3	.	9.5	.	S503	.	.	10
2	870501	1040	304	1	3	.	9.5	.	S823	.	.	2
2	870501	1040	304	1	3	.	9.5	.	S494	.	.	1
2	870501	1105	304	2	3	.	9.5	.	S544	.	.	22
2	870501	1105	304	2	3	.	9.5	.	H124	4	3	10
2	870501	1105	304	2	3	.	9.5	.	S503	.	.	20
2	870501	1105	304	2	3	.	9.5	.	H118	4	3	5
2	870501	1105	304	2	3	.	9.5	.	S536	.	.	25
2	870501	1105	304	2	3	.	9.5	.	S494	.	.	35
2	870501	1105	304	2	3	.	9.5	.	S823	.	.	2
2	870501	1105	304	2	3	.	9.5	.	S487	.	.	1
2	870501	1105	304	2	3	.	9.5	.	S424	.	.	3
2	870501	1115	304	3	3	.	9.5	.	S503	.	.	9
2	870501	1115	304	3	3	.	9.5	.	H118	4	4	2
2	870501	1115	304	3	3	.	9.5	.	H124	4	3	2
2	870501	1115	304	3	3	.	9.5	.	S424	.	.	2
2	870501	1135	305	1	3	.	10.0	.	S544	.	.	3
2	870501	1135	305	1	3	.	10.0	.	S536	.	.	11
2	870501	1135	305	1	3	.	10.0	.	S503	.	.	5
2	870501	1135	305	1	3	.	10.0	.	S424	.	.	2
2	870501	1135	305	1	3	.	10.0	.	S487	.	.	1

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TRIP	DATE	TIME	STN	SET	HAUL	SECCHI	TEMP	CURR	SPEC	GROUP	STAGE	CATCH
2	870501	1135	305	1	3	.	10.0	.	H124	4	3	5
2	870501	1135	305	1	3	.	10.0	.	S494	.	.	26
2	870501	1135	305	1	3	.	10.0	.	S823	.	.	1
2	870501	1145	305	2	3	.	10.0	.	H124	4	3	7
2	870501	1145	305	2	3	.	10.0	.	S536	.	.	2
2	870501	1145	305	2	3	.	10.0	.	S503	.	.	1
2	870501	1145	305	2	3	.	10.0	.	S823	.	.	1
2	870501	1145	305	2	3	.	10.0	.	S494	.	.	9
2	870501	1150	305	3	3	.	10.0	.	S823	.	.	3
2	870501	1150	305	3	3	.	10.0	.	H118	4	4	2
2	870501	1150	305	3	3	.	10.0	.	H124	4	3	7
2	870501	1150	305	3	3	.	10.0	.	S503	.	.	1
2	870501	1150	305	3	3	.	10.0	.	S536	.	.	1
2	870501	1150	305	3	3	.	10.0	.	S494	.	.	17
2	870501	1320	306	1	3	.	10.0	.	H124	4	4	9
2	870501	1320	306	1	3	.	10.0	.	H112	4	7	2
2	870501	1320	306	1	3	.	10.0	.	S823	.	.	8
2	870501	1320	306	1	3	.	10.0	.	S503	.	.	1
2	870501	1320	306	1	3	.	10.0	.	S494	.	.	4
2	870501	1320	306	1	3	.	10.0	.	S536	.	.	1
2	870501	1330	306	2	3	.	10.0	.	H124	4	7	8
2	870501	1330	306	2	3	.	10.0	.	H112	4	7	6
2	870501	1330	306	2	3	.	10.0	.	S823	.	.	9
2	870501	1330	306	2	3	.	10.0	.	S494	.	.	9
2	870501	1330	306	2	3	.	10.0	.	S544	.	.	5
2	870501	1330	306	2	3	.	10.0	.	H118	4	3	3
2	870501	1335	306	3	3	.	10.0	.	H124	4	3	18
2	870501	1335	306	3	3	.	10.0	.	H112	4	7	2
2	870501	1335	306	3	3	.	10.0	.	H118	4	3	12
2	870501	1335	306	3	3	.	10.0	.	S494	.	.	13
2	870501	1335	306	3	3	.	10.0	.	S823	.	.	15
2	870501	1335	306	3	3	.	10.0	.	S544	.	.	3
3	870514	1005	301	1	3	.	.	.	H124	4	7	5
3	870514	1005	301	1	3	.	.	.	S494	.	.	4
3	870514	1005	301	1	3	.	.	.	S823	.	.	20
3	870514	1012	301	2	3	.	.	.	H128	4	7	1
3	870514	1012	301	2	3	.	.	.	H124	4	7	6
3	870514	1012	301	2	3	.	.	.	S823	.	.	17
3	870514	1012	301	2	3	.	.	.	S494	.	.	2
3	870514	1015	301	3	3	.	.	.	H124	4	3	3
3	870514	1015	301	3	3	.	.	.	S823	.	.	16
3	870514	1015	301	3	3	.	.	.	S494	.	.	1
3	870514	1015	301	3	3	.	.	.	S536	.	.	1
3	870514	1015	301	3	3	.	.	.	H128	4	7	1
3	870514	1030	303	1	3	.	.	.	S503	.	.	27

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3	870514	1030	303	1	3	.	.	.	S424	.	.	1
3	870514	1030	303	1	3	.	.	.	H124	4	3	3
3	870514	1030	303	1	3	.	.	.	S823	.	.	3
3	870514	1035	303	2	3	.	.	.	H124	4	3	2
3	870514	1035	303	2	3	.	.	.	S036	.	.	6
3	870514	1035	303	2	3	.	.	.	S494	.	.	7
3	870514	1035	303	2	3	.	.	.	S503	.	.	3
3	870514	1035	303	2	3	.	.	.	S823	.	.	2
3	870514	1035	303	2	3	.	.	.	H118	4	3	1
3	870514	1035	303	2	3	.	.	.	H112	4	7	1
3	870514	1050	303	3	3	.	.	.	H127	4	6	1
3	870514	1050	303	3	3	.	.	.	S503	.	.	6
3	870514	1050	303	3	3	.	.	.	H124	4	3	2
3	870514	1050	303	3	3	.	.	.	S823	.	.	3
3	870514	1050	303	3	3	.	.	.	S494	.	.	2
3	870514	1115	304	1	3	.	.	.	H124	4	3	3
3	870514	1115	304	1	3	.	.	.	S503	.	.	2
3	870514	1120	304	2	3	.	.	.		.	.	0
3	870514	1125	304	3	3	.	.	.	S536	.	.	1
3	870514	1145	305	1	3	.	.	.	S503	.	.	3
3	870514	1145	305	1	3	.	.	.	H124	4	3	4
3	870514	1145	305	1	3	.	.	.	S823	.	.	3
3	870514	1145	305	1	3	.	.	.	S494	.	.	12
3	870514	1145	305	1	3	.	.	.	S536	.	.	2
3	870514	1150	305	2	3	.	.	.	S494	.	.	13
3	870514	1150	305	2	3	.	.	.	S823	.	.	2
3	870514	1150	305	2	3	.	.	.	H124	4	3	1
3	870514	1150	305	2	3	.	.	.	S503	.	.	2
3	870514	1150	305	2	3	.	.	.	H118	4	4	1
3	870514	1200	305	3	3	.	.	.	S494	.	.	19
3	870514	1200	305	3	3	.	.	.	S823	.	.	7
3	870514	1200	305	3	3	.	.	.	H124	4	3	4
3	870514	1200	305	3	3	.	.	.	S536	.	.	2
3	870514	1220	306	1	3	.	.	.	H124	4	3	1
3	870514	1220	306	1	3	.	.	.	S494	.	.	15
3	870514	1225	306	2	3	.	.	.	S494	.	.	13
3	870514	1225	306	2	3	.	.	.	S536	.	.	1
3	870514	1225	306	2	3	.	.	.	S531	.	.	1
3	870514	1225	306	2	3	.	.	.	S424	.	.	2
3	870514	1225	306	2	3	.	.	.	H124	4	3	1
3	870514	1225	306	2	3	.	.	.	H118	4	3	1
3	870514	1230	306	3	3	.	.	.	H124	4	3	1
3	870514	1230	306	3	3	.	.	.	S494	.	.	12
4	870528	755	301	1	3	45	12.0	0.52	H118	4	7	1
4	870528	755	301	1	3	45	12.0	0.52	H124	4	3	2

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4	870528	755	301	1	3	45	12.0	0.52	S494	.	.	3
4	870528	755	301	1	3	45	12.0	0.52	S823	.	.	1
4	870528	805	301	2	3	45	12.0	0.52		.	.	0
4	870528	810	301	3	3	45	12.0	0.52		.	.	0
4	870528	820	303	1	3	25	12.0	0.03	S503	.	.	35
4	870528	820	303	1	3	25	12.0	0.03	S823	.	.	2
4	870528	820	303	1	3	25	12.0	0.03	S494	.	.	1
4	870528	820	303	1	3	25	12.0	0.03	H118	4	4	3
4	870528	820	303	1	3	25	12.0	0.03	H124	4	7	5
4	870528	830	303	2	3	25	12.0	0.03	S503	.	.	16
4	870528	830	303	2	3	25	12.0	0.03	S494	.	.	1
4	870528	830	303	2	3	25	12.0	0.03	S424	.	.	1
4	870528	830	303	2	3	25	12.0	0.03	H118	4	3	1
4	870528	830	303	2	3	25	12.0	0.03	H124	4	3	1
4	870528	835	303	3	3	25	12.0	0.03	S503	.	.	19
4	870528	835	303	3	3	25	12.0	0.03	S494	.	.	2
4	870528	835	303	3	3	25	12.0	0.03	H124	4	7	10
4	870528	835	303	3	3	25	12.0	0.03	H112	4	3	1
4	870528	850	302	1	3	50	13.0	0.42	S503	.	.	19
4	870528	850	302	1	3	50	13.0	0.42	S494	.	.	4
4	870528	850	302	1	3	50	13.0	0.42	S823	.	.	1
4	870528	850	302	1	3	50	13.0	0.42	H124	4	7	1
4	870528	900	302	2	3	50	13.0	0.42	S291	.	.	1
4	870528	900	302	2	3	50	13.0	0.42	S503	.	.	3
4	870528	900	302	2	3	50	13.0	0.42	S823	.	.	2
4	870528	900	302	2	3	50	13.0	0.42	S494	.	.	1
4	870528	900	302	2	3	50	13.0	0.42	H124	4	7	6
4	870528	905	302	3	3	50	13.0	0.42	S503	.	.	1
4	870528	905	302	3	3	50	13.0	0.42	H124	4	7	1
4	870528	915	304	1	3	25	13.0	0.01	S544	.	.	1
4	870528	915	304	1	3	25	13.0	0.01	S503	.	.	15
4	870528	915	304	1	3	25	13.0	0.01	S424	.	.	4
4	870528	915	304	1	3	25	13.0	0.01	S494	.	.	7
4	870528	915	304	1	3	25	13.0	0.01	S823	.	.	3
4	870528	915	304	1	3	25	13.0	0.01	S536	.	.	1
4	870528	915	304	1	3	25	13.0	0.01	H124	4	3	1
4	870528	915	304	1	3	25	13.0	0.01	H118	4	3	6
4	870528	920	304	2	3	25	13.0	0.01	S544	.	.	13
4	870528	920	304	2	3	25	13.0	0.01	S424	.	.	12
4	870528	920	304	2	3	25	13.0	0.01	S823	.	.	1
4	870528	920	304	2	3	25	13.0	0.01	S503	.	.	17
4	870528	920	304	2	3	25	13.0	0.01	S494	.	.	14
4	870528	920	304	2	3	25	13.0	0.01	H124	4	3	7
4	870528	920	304	2	3	25	13.0	0.01	H118	4	3	4
4	870528	930	304	3	3	25	13.0	0.01	S503	.	.	15

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TRIP	DATE	TIME	STN	SET	HAUL	SECCHI	TEMP	CURR	SPEC	GROUP	STAGE	CATCH
4	870528	930	304	3	3	25	13.0	0.01	S544	.	.	7
4	870528	930	304	3	3	25	13.0	0.01	S494	.	.	9
4	870528	930	304	3	3	25	13.0	0.01	S424	.	.	1
4	870528	930	304	3	3	25	13.0	0.01	S823	.	.	1
4	870528	930	304	3	3	25	13.0	0.01	H124	4	3	1
4	870528	930	304	3	3	25	13.0	0.01	H118	4	3	5
4	870528	950	305	1	3	25	12.0	0.05	S487	.	.	5
4	870528	950	305	1	3	25	12.0	0.05	S544	.	.	9
4	870528	950	305	1	3	25	12.0	0.05	S494	.	.	10
4	870528	950	305	1	3	25	12.0	0.05	S424	.	.	2
4	870528	950	305	1	3	25	12.0	0.05	H124	4	3	6
4	870528	950	305	1	3	25	12.0	0.05	H118	4	3	1
4	870528	1000	305	2	3	25	12.0	0.05	S503	.	.	2
4	870528	1000	305	2	3	25	12.0	0.05	S494	.	.	2
4	870528	1000	305	2	3	25	12.0	0.05	S823	.	.	1
4	870528	1000	305	2	3	25	12.0	0.05	H124	4	3	2
4	870528	1005	305	3	3	25	12.0	0.05	S823	.	.	1
4	870528	1005	305	3	3	25	12.0	0.05	H124	4	3	5
4	870528	1005	305	3	3	25	12.0	0.05	H124	4	4	1
4	870528	1005	305	3	3	25	12.0	0.05	H118	4	3	1
4	870528	1030	306	1	3	40	13.0	0.24	S424	.	.	3
4	870528	1030	306	1	3	40	13.0	0.24	S494	.	.	20
4	870528	1030	306	1	3	40	13.0	0.24	S823	.	.	5
4	870528	1030	306	1	3	40	13.0	0.24	S487	.	.	2
4	870528	1030	306	1	3	40	13.0	0.24	S503	.	.	8
4	870528	1030	306	1	3	40	13.0	0.24	S291	.	.	1
4	870528	1030	306	1	3	40	13.0	0.24	S536	.	.	5
4	870528	1030	306	1	3	40	13.0	0.24	H124	4	3	20
4	870528	1030	306	1	3	40	13.0	0.24	H118	4	3	4
4	870528	1045	306	2	3	40	13.0	0.24	S503	.	.	13
4	870528	1045	306	2	3	40	13.0	0.24	S424	.	.	4
4	870528	1045	306	2	3	40	13.0	0.24	S494	.	.	16
4	870528	1045	306	2	3	40	13.0	0.24	S536	.	.	3
4	870528	1045	306	2	3	40	13.0	0.24	S823	.	.	1
4	870528	1045	306	2	3	40	13.0	0.24	H124	4	3	2
4	870528	1055	306	3	3	40	13.0	0.24	S494	.	.	49
4	870528	1055	306	3	3	40	13.0	0.24	S503	.	.	8
4	870528	1055	306	3	3	40	13.0	0.24	S536	.	.	4
4	870528	1055	306	3	3	40	13.0	0.24	S823	.	.	2
4	870528	1055	306	3	3	40	13.0	0.24	H124	4	3	10
5	870610	805	301	1	3	.	14.0	0.80	S494	.	.	13
5	870610	805	301	1	3	.	14.0	0.80	S291	.	.	1
5	870610	805	301	1	3	.	14.0	0.80	S536	.	.	1
5	870610	805	301	1	3	.	14.0	0.80	S823	.	.	5
5	870610	805	301	1	3	.	14.0	0.80	H124	4	7	3

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5	870610	805	301	1	3	.	14.0	0.80	H124	1	4	1
5	870610	815	301	2	3	.	14.0	0.80	S487	.	.	1
5	870610	815	301	2	3	.	14.0	0.80	S494	.	.	5
5	870610	815	301	2	3	.	14.0	0.80	S823	.	.	2
5	870610	815	301	2	3	.	14.0	0.80	H124	4	3	2
5	870610	820	301	3	3	.	14.0	0.80	S494	.	.	43
5	870610	820	301	3	3	.	14.0	0.80	S823	.	.	2
5	870610	820	301	3	3	.	14.0	0.80	S424	.	.	1
5	870610	820	301	3	3	.	14.0	0.80	S536	.	.	2
5	870610	820	301	3	3	.	14.0	0.80	H124	4	3	14
5	870610	820	301	3	3	.	14.0	0.80	H115	4	3	1
5	870610	840	303	1	3	.	13.5	0.03	S503	.	.	1
5	870610	840	303	1	3	.	13.5	0.03	S494	.	.	5
5	870610	840	303	1	3	.	13.5	0.03	H124	4	3	5
5	870610	850	303	2	3	.	13.5	0.03	S494	.	.	19
5	870610	850	303	2	3	.	13.5	0.03	S291	.	.	1
5	870610	855	303	3	3	.	13.5	0.03	S503	.	.	64
5	870610	855	303	3	3	.	13.5	0.03	S487	.	.	1
5	870610	855	303	3	3	.	13.5	0.03	S494	.	.	2
5	870610	855	303	3	3	.	13.5	0.03	H124	4	3	2
5	870610	905	302	1	3	.	14.0	0.15	S823	.	.	4
5	870610	905	302	1	3	.	14.0	0.15	S503	.	.	5
5	870610	905	302	1	3	.	14.0	0.15	S494	.	.	7
5	870610	905	302	1	3	.	14.0	0.15	H124	4	3	7
5	870610	905	302	1	3	.	14.0	0.15	H115	4	3	1
5	870610	910	302	2	3	.	14.0	0.15	S503	.	.	2
5	870610	910	302	2	3	.	14.0	0.15	S494	.	.	4
5	870610	910	302	2	3	.	14.0	0.15	H124	4	3	3
5	870610	915	302	3	3	.	14.0	0.15	S823	.	.	1
5	870610	915	302	3	3	.	14.0	0.15	S494	.	.	4
5	870610	930	304	1	3	.	14.0	0.02	S503	.	.	7
5	870610	930	304	1	3	.	14.0	0.02	S494	.	.	1
5	870610	935	304	2	3	.	14.0	0.02	S503	.	.	3
5	870610	935	304	2	3	.	14.0	0.02	S424	.	.	1
5	870610	940	304	3	3	.	14.0	0.02	S503	.	.	8
5	870610	940	304	3	3	.	14.0	0.02	H124	4	3	2
5	870610	1000	305	1	3	.	14.0	.	S598	.	.	1
5	870610	1000	305	1	3	.	14.0	.	S823	.	.	4
5	870610	1000	305	1	3	.	14.0	.	S494	.	.	8
5	870610	1000	305	1	3	.	14.0	.	H124	4	3	2
5	870610	1005	305	2	3	.	14.0	.	S823	.	.	4
5	870610	1005	305	2	3	.	14.0	.	S494	.	.	12
5	870610	1005	305	2	3	.	14.0	.	H124	4	3	9
5	870610	1010	305	3	3	.	14.0	.	S536	.	.	1
5	870610	1010	305	3	3	.	14.0	.	S823	.	.	1

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TRIP	DATE	TIME	STN	SET	HAUL	SECCHI	TEMP	CURR	SPEC	GROUP	STAGE	CATCH
5	870610	1010	305	3	3	.	14.0	.	S494	.	.	2
5	870610	1010	305	3	3	.	14.0	.	H124	4	3	1
5	870610	1025	306	1	3	.	14.0	.	H124	4	7	4
5	870610	1025	306	1	3	.	14.0	.	S494	.	.	12
5	870610	1025	306	1	3	.	14.0	.	S536	.	.	2
5	870610	1025	306	1	3	.	14.0	.	H115	4	3	1
5	870610	1030	306	2	3	.	14.0	.	S823	.	.	2
5	870610	1030	306	2	3	.	14.0	.	S494	.	.	1
5	870610	1030	306	2	3	.	14.0	.	H124	4	3	3
5	870610	1035	306	3	3	.	14.0	.	S487	.	.	1
5	870610	1035	306	3	3	.	14.0	.	S536	.	.	4
5	870610	1035	306	3	3	.	14.0	.	S494	.	.	2
5	870610	1035	306	3	3	.	14.0	.	H124	4	3	2
5	870610	1035	306	3	3	.	14.0	.	H118	4	7	1
6	870625	805	301	1	3	.	.	1.05	H124	4	3	6
6	870625	805	301	1	3	.	.	1.05	S291	.	.	1
6	870625	805	301	1	3	.	.	1.05	H128	4	7	1
6	870625	805	301	1	3	.	.	1.05	S494	.	.	7
6	870625	805	301	1	3	.	.	1.05	S536	.	.	9
6	870625	805	301	1	3	.	.	1.05	S823	.	.	6
6	870625	815	301	2	3	.	.	1.05	S536	.	.	2
6	870625	815	301	2	3	.	.	1.05	S823	.	.	3
6	870625	815	301	2	3	.	.	1.05	S291	.	.	1
6	870625	815	301	2	3	.	.	1.05	H124	4	3	11
6	870625	820	301	3	3	.	.	1.05	S823	.	.	1
6	870625	820	301	3	3	.	.	1.05	S536	.	.	2
6	870625	820	301	3	3	.	.	1.05	S291	.	.	1
6	870625	820	301	3	3	.	.	1.05	S494	.	.	9
6	870625	820	301	3	3	.	.	1.05	H124	4	3	4
6	870625	840	303	1	3	.	.	.	S503	.	.	3
6	870625	840	303	1	3	.	.	.	H124	4	3	3
6	870625	840	303	1	3	.	.	.	H118	4	3	2
6	870625	845	303	2	3	.	.	.	H124	4	3	4
6	870625	845	303	2	3	.	.	.	H118	4	3	4
6	870625	845	303	2	3	.	.	.	S503	.	.	42
6	870625	845	303	2	3	.	.	.	S494	.	.	4
6	870625	845	303	2	3	.	.	.	S036	.	.	2
6	870625	850	303	3	3	.	.	.	S503	.	.	19
6	870625	850	303	3	3	.	.	.	S494	.	.	1
6	870625	850	303	3	3	.	.	.	S036	.	.	2
6	870625	850	303	3	3	.	.	.	H124	4	3	1
6	870625	850	303	3	3	.	.	.	H118	4	3	1
6	870625	905	302	1	3	.	.	.	H118	4	3	2
6	870625	905	302	1	3	.	.	.	H124	4	3	1
6	870625	905	302	1	3	.	.	.	S503	.	.	2

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6	870625	905	302	1	3	.	.	.	S494	.	.	3
6	870625	905	302	1	3	.	.	.	S823	.	.	1
6	870625	910	302	2	3	.	.	.	S494	.	.	22
6	870625	910	302	2	3	.	.	.	S823	.	.	1
6	870625	910	302	2	3	.	.	.	S503	.	.	1
6	870625	910	302	2	3	.	.	.	S291	.	.	1
6	870625	910	302	2	3	.	.	.	H124	4	3	2
6	870625	915	302	3	3	.	.	.	S494	.	.	4
6	870625	915	302	3	3	.	.	.	S823	.	.	1
6	870625	915	302	3	3	.	.	.	H124	4	3	2
6	870625	935	304	1	3	.	.	.	S503	.	.	2
6	870625	935	304	1	3	.	.	.	H118	4	3	5
6	870625	940	304	2	3	.	.	.	S503	.	.	6
6	870625	940	304	2	3	.	.	.	H124	4	3	2
6	870625	940	304	2	3	.	.	.	H118	4	3	9
6	870625	945	304	3	3	.	.	.	H118	4	3	1
6	870625	945	304	3	3	.	.	.	H124	4	3	1
6	870625	1000	305	1	3	.	.	.	S494	.	.	19
6	870625	1000	305	1	3	.	.	.	S536	.	.	1
6	870625	1000	305	1	3	.	.	.	S823	.	.	1
6	870625	1000	305	1	3	.	.	.	H124	4	3	31
6	870625	1005	305	2	3	.	.	.	H124	4	3	17
6	870625	1005	305	2	3	.	.	.	H118	4	3	1
6	870625	1005	305	2	3	.	.	.	S503	.	.	1
6	870625	1005	305	2	3	.	.	.	S494	.	.	27
6	870625	1005	305	2	3	.	.	.	S536	.	.	5
6	870625	1025	305	3	3	.	.	.	S494	.	.	20
6	870625	1025	305	3	3	.	.	.	S503	.	.	1
6	870625	1025	305	3	3	.	.	.	S823	.	.	1
6	870625	1025	305	3	3	.	.	.	H124	4	3	6
6	870625	1040	306	1	3	.	.	.	S494	.	.	6
6	870625	1040	306	1	3	.	.	.	S823	.	.	3
6	870625	1040	306	1	3	.	.	.	H124	4	3	2
6	870625	1040	306	1	3	.	.	.	H118	4	3	1
6	870625	1045	306	2	3	.	.	.	S494	.	.	3
6	870625	1045	306	2	3	.	.	.	S665	.	.	2
6	870625	1045	306	2	3	.	.	.	S503	.	.	13
6	870625	1045	306	2	3	.	.	.	S424	.	.	2
6	870625	1045	306	2	3	.	.	.	H124	4	3	5
6	870625	1055	306	3	3	.	.	.	H124	4	3	6
6	870625	1055	306	3	3	.	.	.	H118	4	3	1
6	870625	1055	306	3	3	.	.	.	S823	.	.	2
6	870625	1055	306	3	3	.	.	.	S494	.	.	3
6	870625	1055	306	3	3	.	.	.	S536	.	.	1
6	870625	1120	307	1	3	.	.	.	S487	.	.	1

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6	870625	1120	307	1	3	.	.	.	S424	.	.	2
6	870625	1120	307	1	3	.	.	.	S494	.	.	3
6	870625	1120	307	1	3	.	.	.	S503	.	.	4
6	870625	1120	307	1	3	.	.	.	H118	4	3	5
6	870625	1120	307	1	3	.	.	.	H124	4	3	9
6	870625	1125	307	2	3	.	.	.	S494	.	.	3
6	870625	1125	307	2	3	.	.	.	S503	.	.	1
6	870625	1125	307	2	3	.	.	.	S036	.	.	4
6	870625	1125	307	2	3	.	.	.	S823	.	.	1
6	870625	1125	307	2	3	.	.	.	H124	4	4	5
6	870625	1125	307	2	3	.	.	.	H118	4	3	1
6	870625	1135	307	3	3	.	.	.	S487	.	.	3
6	870625	1135	307	3	3	.	.	.	S536	.	.	6
6	870625	1135	307	3	3	.	.	.	S503	.	.	4
6	870625	1135	307	3	3	.	.	.	S823	.	.	1
6	870625	1135	307	3	3	.	.	.	S494	.	.	6
6	870625	1135	307	3	3	.	.	.	S036	.	.	1
6	870625	1135	307	3	3	.	.	.	H124	4	4	15
6	870625	1135	307	3	3	.	.	.	H118	4	3	1
7	870709	755	301	1	3	20	16.5	0.45	H124	4	3	2
7	870709	800	301	2	3	20	16.5	0.45	S536	.	.	1
7	870709	805	301	3	3	20	16.5	0.45	S823	.	.	5
7	870709	805	301	3	3	20	16.5	0.45	S494	.	.	3
7	870709	805	301	3	3	20	16.5	0.45	H124	4	3	1
7	870709	820	303	1	3	24	16.0	0.06	S503	.	.	58
7	870709	820	303	1	3	24	16.0	0.06	S487	.	.	1
7	870709	820	303	1	3	24	16.0	0.06	H118	4	7	1
7	870709	825	303	2	3	24	16.0	0.06	S503	.	.	43
7	870709	825	303	2	3	24	16.0	0.06	S494	.	.	1
7	870709	825	303	2	3	24	16.0	0.06	H124	4	3	1
7	870709	825	303	2	3	24	16.0	0.06	S414	.	.	1
7	870709	830	303	3	3	24	16.0	0.06	S503	.	.	34
7	870709	830	303	3	3	24	16.0	0.06	S823	.	.	1
7	870709	830	303	3	3	24	16.0	0.06	S494	.	.	1
7	870709	830	303	3	3	24	16.0	0.06	H124	4	3	1
7	870709	845	302	1	3	20	16.0	0.22	S291	.	.	1
7	870709	845	302	1	3	20	16.0	0.22	S503	.	.	4
7	870709	845	302	1	3	20	16.0	0.22	S494	.	.	1
7	870709	845	302	1	3	20	16.0	0.22	S823	.	.	2
7	870709	845	302	1	3	20	16.0	0.22	H124	4	3	1
7	870709	850	302	2	3	20	16.0	0.22	S503	.	.	2
7	870709	850	302	2	3	20	16.0	0.22	S494	.	.	2
7	870709	850	302	2	3	20	16.0	0.22	S823	.	.	1
7	870709	855	302	3	3	20	16.0	0.22	S503	.	.	1
7	870709	855	302	3	3	20	16.0	0.22	S494	.	.	3

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7	870709	855	302	3	3	20	16.0	0.22	H124	4	3	1
7	870709	920	304	1	3	22	16.5	0.01	S503	.	.	16
7	870709	920	304	1	3	22	16.5	0.01	S823	.	.	1
7	870709	920	304	1	3	22	16.5	0.01	S424	.	.	5
7	870709	920	304	1	3	22	16.5	0.01	S536	.	.	4
7	870709	920	304	1	3	22	16.5	0.01	S544	.	.	2
7	870709	920	304	1	3	22	16.5	0.01	S494	.	.	3
7	870709	920	304	1	3	22	16.5	0.01	S487	.	.	1
7	870709	920	304	1	3	22	16.5	0.01	S665	.	.	4
7	870709	920	304	1	3	22	16.5	0.01	H124	4	3	1
7	870709	925	304	2	3	22	16.5	0.01	S503	.	.	79
7	870709	925	304	2	3	22	16.5	0.01	S544	.	.	1
7	870709	925	304	2	3	22	16.5	0.01	S487	.	.	1
7	870709	925	304	2	3	22	16.5	0.01	S536	.	.	2
7	870709	925	304	2	3	22	16.5	0.01	S424	.	.	8
7	870709	925	304	2	3	22	16.5	0.01	S494	.	.	5
7	870709	925	304	2	3	22	16.5	0.01	H124	4	3	1
7	870709	930	304	3	3	22	16.5	0.01	S503	.	.	86
7	870709	930	304	3	3	22	16.5	0.01	S536	.	.	10
7	870709	930	304	3	3	22	16.5	0.01	S424	.	.	7
7	870709	930	304	3	3	22	16.5	0.01	S494	.	.	5
7	870709	930	304	3	3	22	16.5	0.01	S291	.	.	1
7	870709	930	304	3	3	22	16.5	0.01	S665	.	.	3
7	870709	1000	305	1	3	25	16.5	0.13	S503	.	.	14
7	870709	1000	305	1	3	25	16.5	0.13	S494	.	.	18
7	870709	1000	305	1	3	25	16.5	0.13	S291	.	.	1
7	870709	1000	305	1	3	25	16.5	0.13	S544	.	.	12
7	870709	1000	305	1	3	25	16.5	0.13	S536	.	.	3
7	870709	1000	305	1	3	25	16.5	0.13	S665	.	.	1
7	870709	1000	305	1	3	25	16.5	0.13	S823	.	.	2
7	870709	1000	305	1	3	25	16.5	0.13	H124	4	3	11
7	870709	1000	305	1	3	25	16.5	0.13	H118	4	3	4
7	870709	1005	305	2	3	25	16.5	0.13	H118	4	3	1
7	870709	1005	305	2	3	25	16.5	0.13	S823	.	.	1
7	870709	1005	305	2	3	25	16.5	0.13	S503	.	.	1
7	870709	1005	305	2	3	25	16.5	0.13	S494	.	.	11
7	870709	1010	305	3	3	25	16.5	0.13	S544	.	.	1
7	870709	1010	305	3	3	25	16.5	0.13	S823	.	.	2
7	870709	1010	305	3	3	25	16.5	0.13	S424	.	.	1
7	870709	1010	305	3	3	25	16.5	0.13	S494	.	.	23
7	870709	1010	305	3	3	25	16.5	0.13	S536	.	.	1
7	870709	1010	305	3	3	25	16.5	0.13	H118	4	4	2
7	870709	1010	305	3	3	25	16.5	0.13	H124	4	3	16
7	870709	1035	306	1	3	25	16.0	0.37	H124	4	3	5
7	870709	1035	306	1	3	25	16.0	0.37	S536	.	.	2

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7	870709	1035	306	1	3	25	16.0	0.37	S494	.	.	21
7	870709	1040	306	2	3	25	16.0	0.37	S823	.	.	4
7	870709	1040	306	2	3	25	16.0	0.37	S494	.	.	4
7	870709	1040	306	2	3	25	16.0	0.37	S536	.	.	1
7	870709	1045	306	3	3	25	16.0	0.37	S823	.	.	3
7	870709	1045	306	3	3	25	16.0	0.37	S494	.	.	13
7	870709	1045	306	3	3	25	16.0	0.37	H124	4	3	1
7	870709	1045	306	3	3	25	16.0	0.37	S536	.	.	1
8	870724	822	301	1	3	35	18.0	.	S424	.	.	1
8	870724	822	301	1	3	35	18.0	.	S487	.	.	2
8	870724	822	301	1	3	35	18.0	.	S494	.	.	11
8	870724	822	301	1	3	35	18.0	.	H124	4	3	12
8	870724	822	301	1	3	35	18.0	.	S544	.	.	1
8	870724	822	301	1	3	35	18.0	.	H128	4	7	1
8	870724	822	301	1	3	35	18.0	.	S503	.	.	1
8	870724	830	301	2	3	35	18.0	.	S494	.	.	13
8	870724	830	301	2	3	35	18.0	.	H124	4	3	10
8	870724	830	301	2	3	35	18.0	.	S544	.	.	2
8	870724	830	301	2	3	35	18.0	.	S291	.	.	1
8	870724	830	301	2	3	35	18.0	.	S503	.	.	5
8	870724	840	301	3	3	35	18.0	.	S494	.	.	21
8	870724	840	301	3	3	35	18.0	.	H124	4	3	4
8	870724	840	301	3	3	35	18.0	.	S544	.	.	3
8	870724	840	301	3	3	35	18.0	.	S503	.	.	2
8	870724	906	302	1	3	41	17.5	.	S494	.	.	1
8	870724	906	302	1	3	41	17.5	.	S424	.	.	7
8	870724	906	302	1	3	41	17.5	.	S503	.	.	1
8	870724	906	302	1	3	41	17.5	.	S823	.	.	2
8	870724	910	302	2	3	41	17.5	.	H118	4	3	2
8	870724	910	302	2	3	41	17.5	.	S494	.	.	1
8	870724	910	302	2	3	41	17.5	.	S424	.	.	2
8	870724	915	302	3	3	41	17.5	.	S503	.	.	4
8	870724	915	302	3	3	41	17.5	.	S487	.	.	1
8	870724	915	302	3	3	41	17.5	.	S823	.	.	1
8	870724	915	302	3	3	41	17.5	.	S376	.	.	1
8	870724	940	303	1	3	30	18.0	.	S376	.	.	4
8	870724	940	303	1	3	30	18.0	.	S494	.	.	11
8	870724	940	303	1	3	30	18.0	.	S823	.	.	2
8	870724	940	303	1	3	30	18.0	.	H124	4	3	20
8	870724	940	303	1	3	30	18.0	.	S503	.	.	2
8	870724	940	303	1	3	30	18.0	.	S544	.	.	1
8	870724	950	303	2	3	30	18.0	.	S494	.	.	5
8	870724	950	303	2	3	30	18.0	.	H124	4	3	10
8	870724	1000	303	3	3	30	18.0	.	S494	.	.	4
8	870724	1000	303	3	3	30	18.0	.	H124	4	7	15

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8	870724	1000	303	3	3	30	18.0	.	S503	.	.	2
8	870724	1000	303	3	3	30	18.0	.	S823	.	.	1
8	870724	1030	304	1	3	28	18.5	.	S544	.	.	86
8	870724	1030	304	1	3	28	18.5	.	S424	.	.	13
8	870724	1030	304	1	3	28	18.5	.	S503	.	.	53
8	870724	1030	304	1	3	28	18.5	.	S414	.	.	3
8	870724	1030	304	1	3	28	18.5	.	S487	.	.	6
8	870724	1030	304	1	3	28	18.5	.	H124	4	3	13
8	870724	1030	304	1	3	28	18.5	.	S494	.	.	42
8	870724	1030	304	1	3	28	18.5	.	S665	.	.	12
8	870724	1030	304	1	3	28	18.5	.	S823	.	.	1
8	870724	1045	304	2	3	28	18.5	.	S494	.	.	2
8	870724	1045	304	2	3	28	18.5	.	S503	.	.	3
8	870724	1045	304	2	3	28	18.5	.	S665	.	.	1
8	870724	1100	304	3	3	28	18.5	.	H124	4	3	4
8	870724	1100	304	3	3	28	18.5	.	S291	.	.	2
8	870724	1100	304	3	3	28	18.5	.	S503	.	.	3
8	870724	1100	304	3	3	28	18.5	.	S544	.	.	7
8	870724	1100	304	3	3	28	18.5	.	S494	.	.	5
8	870724	1100	304	3	3	28	18.5	.	S665	.	.	1
8	870724	1128	305	1	3	30	18.5	.	S503	.	.	16
8	870724	1128	305	1	3	30	18.5	.	S494	.	.	20
8	870724	1128	305	1	3	30	18.5	.	S544	.	.	4
8	870724	1128	305	1	3	30	18.5	.	H124	4	3	7
8	870724	1128	305	1	3	30	18.5	.	S536	.	.	1
8	870724	1128	305	1	3	30	18.5	.	S424	.	.	1
8	870724	1128	305	1	3	30	18.5	.	H118	4	3	2
8	870724	1135	305	2	3	30	18.5	.	S503	.	.	3
8	870724	1135	305	2	3	30	18.5	.	S494	.	.	1
8	870724	1135	305	2	3	30	18.5	.	S487	.	.	1
8	870724	1135	305	2	3	30	18.5	.	S536	.	.	1
8	870724	1135	305	2	3	30	18.5	.	S823	.	.	1
8	870724	1135	305	2	3	30	18.5	.	H124	4	3	1
8	870724	1145	305	3	3	30	18.5	.	S494	.	.	2
8	870724	1145	305	3	3	30	18.5	.	S823	.	.	2
8	870724	1300	306	1	3	45	20.0	.	S494	.	.	84
8	870724	1300	306	1	3	45	20.0	.	S544	.	.	20
8	870724	1300	306	1	3	45	20.0	.	S503	.	.	13
8	870724	1300	306	1	3	45	20.0	.	S487	.	.	3
8	870724	1300	306	1	3	45	20.0	.	H124	4	3	17
8	870724	1310	306	2	3	45	20.0	.	H124	4	3	2
8	870724	1310	306	2	3	45	20.0	.	S424	.	.	1
8	870724	1310	306	2	3	45	20.0	.	S494	.	.	13
8	870724	1310	306	2	3	45	20.0	.	S503	.	.	2
8	870724	1320	306	3	3	45	20.0	.	H124	4	3	2

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8	870724	1320	306	3	3	45	20.0	.	S503	.	.	1
8	870724	1320	306	3	3	45	20.0	.	S494	.	.	17
8	870724	1320	306	3	3	45	20.0	.	S424	.	.	3
8	870724	1320	306	3	3	45	20.0	.	S544	.	.	1
9	870805	1145	301	1	3	.	20.0	0.62	H118	4	6	6
9	870805	1145	301	1	3	.	20.0	0.62	S823	.	.	1
9	870805	1145	301	1	3	.	20.0	0.62	H124	4	7	1
9	870805	1145	301	1	3	.	20.0	0.62	S544	.	.	1
9	870805	1145	301	1	3	.	20.0	0.62	S536	.	.	1
9	870805	1145	301	1	3	.	20.0	0.62	S291	.	.	11
9	870805	1145	301	1	3	.	20.0	0.62	S424	.	.	1
9	870805	1200	301	2	3	.	20.0	0.62	H118	4	6	1
9	870805	1200	301	2	3	.	20.0	0.62	S494	.	.	4
9	870805	1200	301	2	3	.	20.0	0.62	S544	.	.	11
9	870805	1200	301	2	3	.	20.0	0.62	S823	.	.	6
9	870805	1200	301	2	3	.	20.0	0.62	S487	.	.	1
9	870805	1210	301	3	3	.	20.0	0.62	S291	.	.	1
9	870805	1210	301	3	3	.	20.0	0.62	H118	4	6	1
9	870805	1210	301	3	3	.	20.0	0.62	S823	.	.	1
9	870805	1210	301	3	3	.	20.0	0.62	S544	.	.	1
9	870805	1230	302	1	3	.	19.0	0.22	S503	.	.	14
9	870805	1230	302	1	3	.	19.0	0.22	H124	4	7	1
9	870805	1240	302	2	3	.	19.0	0.22	H124	4	7	22
9	870805	1240	302	2	3	.	19.0	0.22	S503	.	.	19
9	870805	1240	302	2	3	.	19.0	0.22	S494	.	.	52
9	870805	1240	302	2	3	.	19.0	0.22	S544	.	.	3
9	870805	1240	302	2	3	.	19.0	0.22	S487	.	.	1
9	870805	1240	302	2	3	.	19.0	0.22	S823	.	.	5
9	870805	1300	302	3	3	.	19.0	0.22	H124	4	7	22
9	870805	1300	302	3	3	.	19.0	0.22	S494	.	.	50
9	870805	1300	302	3	3	.	19.0	0.22	S503	.	.	6
9	870805	1300	302	3	3	.	19.0	0.22	S823	.	.	5
9	870805	1305	303	1	3	.	18.5	0.20	S424	.	.	2
9	870805	1305	303	1	3	.	18.5	0.20	H124	4	7	2
9	870805	1305	303	1	3	.	18.5	0.20	S503	.	.	26
9	870805	1305	303	1	3	.	18.5	0.20	S494	.	.	1
9	870805	1305	303	1	3	.	18.5	0.20	S544	.	.	1
9	870805	1305	303	1	3	.	18.5	0.20	S823	.	.	1
9	870805	1312	303	2	3	.	18.5	0.20	S503	.	.	23
9	870805	1312	303	2	3	.	18.5	0.20	S494	.	.	6
9	870805	1312	303	2	3	.	18.5	0.20	S487	.	.	1
9	870805	1320	303	3	3	.	18.5	0.20	S503	.	.	2
9	870805	1350	304	1	3	.	18.5	0.02	S503	.	.	10
9	870805	1350	304	1	3	.	18.5	0.02	H124	4	7	3
9	870805	1350	304	1	3	.	18.5	0.02	H115	4	7	1

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9	870805	1350	304	1	3	.	18.5	0.02	S424	.	.	1
9	870805	1350	304	1	3	.	18.5	0.02	S487	.	.	1
9	870805	1350	304	1	3	.	18.5	0.02	S823	.	.	2
9	870805	1350	304	1	3	.	18.5	0.02	S494	.	.	2
9	870805	1350	304	1	3	.	18.5	0.02	S665	.	.	1
9	870805	1400	304	2	3	.	18.5	0.02	S503	.	.	35
9	870805	1400	304	2	3	.	18.5	0.02	S536	.	.	1
9	870805	1400	304	2	3	.	18.5	0.02	S424	.	.	1
9	870805	1400	304	2	3	.	18.5	0.02	S487	.	.	1
9	870805	1400	304	2	3	.	18.5	0.02	S494	.	.	2
9	870805	1405	304	3	3	.	18.5	0.02	S503	.	.	29
9	870805	1415	307	1	3	20	19.0	0.02	H118	4	7	1
9	870805	1415	307	1	3	20	19.0	0.02	S503	.	.	8
9	870805	1415	307	1	3	20	19.0	0.02	S536	.	.	2
9	870805	1415	307	1	3	20	19.0	0.02	S494	.	.	7
9	870805	1415	307	1	3	20	19.0	0.02	S424	.	.	1
9	870805	1420	307	2	3	20	19.0	0.02	S487	.	.	3
9	870805	1420	307	2	3	20	19.0	0.02	S424	.	.	1
9	870805	1420	307	2	3	20	19.0	0.02	H124	4	7	2
9	870805	1420	307	2	3	20	19.0	0.02	S503	.	.	39
9	870805	1420	307	2	3	20	19.0	0.02	S494	.	.	10
9	870805	1420	307	2	3	20	19.0	0.02	S291	.	.	2
9	870805	1420	307	2	3	20	19.0	0.02	S536	.	.	1
9	870805	1430	307	3	3	20	19.0	0.02	S424	.	.	4
9	870805	1430	307	3	3	20	19.0	0.02	S503	.	.	6
9	870805	1430	307	3	3	20	19.0	0.02	S487	.	.	1
9	870805	1430	307	3	3	20	19.0	0.02	H124	4	7	1
9	870805	1430	307	3	3	20	19.0	0.02	S494	.	.	6
9	870805	1450	305	1	3	20	19.0	0.05	S536	.	.	1
9	870805	1450	305	1	3	20	19.0	0.05	S823	.	.	1
9	870805	1450	305	1	3	20	19.0	0.05	S598	.	.	1
9	870805	1450	305	1	3	20	19.0	0.05	S544	.	.	1
9	870805	1450	305	1	3	20	19.0	0.05	S503	.	.	8
9	870805	1450	305	1	3	20	19.0	0.05	H124	4	7	1
9	870805	1450	305	1	3	20	19.0	0.05	S494	.	.	1
9	870805	1505	305	2	3	20	19.0	0.05	S544	.	.	1
9	870805	1505	305	2	3	20	19.0	0.05	S536	.	.	9
9	870805	1505	305	2	3	20	19.0	0.05	H124	4	7	7
9	870805	1505	305	2	3	20	19.0	0.05	S494	.	.	13
9	870805	1505	305	2	3	20	19.0	0.05	S823	.	.	4
9	870805	1505	305	2	3	20	19.0	0.05	S503	.	.	8
9	870805	1505	305	2	3	20	19.0	0.05	S544	.	.	1
9	870805	1510	305	3	3	20	19.0	0.05	S544	.	.	1
9	870805	1510	305	3	3	20	19.0	0.05	H124	4	7	3
9	870805	1510	305	3	3	20	19.0	0.05	H128	4	7	1

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9	870805	1510	305	3	3	20	19.0	0.05	S823	.	.	6
9	870805	1510	305	3	3	20	19.0	0.05	S536	.	.	3
9	870805	1510	305	3	3	20	19.0	0.05	S494	.	.	20
9	870805	1510	305	3	3	20	19.0	0.05	S503	.	.	4
9	870805	1620	306	1	3	20	20.0	.	H124	4	7	8
9	870805	1620	306	1	3	20	20.0	.	S503	.	.	1
9	870805	1620	306	1	3	20	20.0	.	S823	.	.	1
9	870805	1630	306	2	3	20	20.0	.	S503	.	.	11
9	870805	1630	306	2	3	20	20.0	.	S487	.	.	1
9	870805	1630	306	2	3	20	20.0	.	S494	.	.	21
9	870805	1630	306	2	3	20	20.0	.	H124	4	7	1
9	870805	1630	306	2	3	20	20.0	.	S544	.	.	1
9	870805	1630	306	2	3	20	20.0	.	S291	.	.	1
9	870805	1630	306	2	3	20	20.0	.	S424	.	.	1
9	870805	1630	306	2	3	20	20.0	.	S536	.	.	4
9	870805	1630	306	2	3	20	20.0	.	S823	.	.	1
9	870805	1635	306	3	3	20	20.0	.	S503	.	.	11
9	870805	1635	306	3	3	20	20.0	.	S494	.	.	9
9	870805	1635	306	3	3	20	20.0	.	S536	.	.	2
9	870805	1635	306	3	3	20	20.0	.	S544	.	.	1
9	870805	1635	306	3	3	20	20.0	.	S823	.	.	2
9	870805	1635	306	3	3	20	20.0	.	H124	4	7	5
9	870805	1635	306	3	3	20	20.0	.	H118	4	7	1
9	870805	1635	306	3	3	20	20.0	.	H128	4	7	1
10	870820	820	301	1	3	.	16.5	0.07	S823	.	.	10
10	870820	820	301	1	3	.	16.5	0.07	S536	.	.	11
10	870820	820	301	1	3	.	16.5	0.07	S424	.	.	7
10	870820	820	301	1	3	.	16.5	0.07	S503	.	.	6
10	870820	820	301	1	3	.	16.5	0.07	S494	.	.	6
10	870820	820	3C1	1	3	.	16.5	0.07	H124	4	7	11
10	870820	830	301	2	3	.	16.5	0.07	H124	4	7	10
10	870820	830	301	2	3	.	16.5	0.07	S503	.	.	8
10	870820	830	301	2	3	.	16.5	0.07	S823	.	.	5
10	870820	830	301	2	3	.	16.5	0.07	S494	.	.	43
10	870820	830	301	2	3	.	16.5	0.07	S665	.	.	1
10	870820	830	301	2	3	.	16.5	0.07	S424	.	.	2
10	870820	830	301	2	3	.	16.5	0.07	S487	.	.	1
10	870820	840	301	3	3	.	16.5	0.07	S424	.	.	4
10	870820	840	301	3	3	.	16.5	0.07	S503	.	.	1
10	870820	840	301	3	3	.	16.5	0.07	S494	.	.	19
10	870820	840	301	3	3	.	16.5	0.07	S487	.	.	1
10	870820	840	301	3	3	.	16.5	0.07	S823	.	.	2
10	870820	840	301	3	3	.	16.5	0.07	H124	4	7	15
10	870820	900	303	1	3	.	16.0	0.01	S494	.	.	5
10	870820	900	303	1	3	.	16.0	0.01	S823	.	.	2

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10	870820	900	303	1	3	.	16.0	0.01	H118	4	7	1
10	870820	905	303	2	3	.	16.0	0.01	H118	4	7	1
10	870820	905	303	2	3	.	16.0	0.01	S494	.	.	3
10	870820	905	303	2	3	.	16.0	0.01	S503	.	.	5
10	870820	905	303	2	3	.	16.0	0.01	S536	.	.	1
10	870820	905	303	2	3	.	16.0	0.01	S424	.	.	1
10	870820	910	303	3	3	.	16.0	0.01	S503	.	.	4
10	870820	910	303	3	3	.	16.0	0.01	S487	.	.	2
10	870820	920	302	1	3	.	16.5	0.25	S544	.	.	14
10	870820	920	302	1	3	.	16.5	0.25	S487	.	.	10
10	870820	920	302	1	3	.	16.5	0.25	S503	.	.	4
10	870820	920	302	1	3	.	16.5	0.25	S291	.	.	1
10	870820	920	302	1	3	.	16.5	0.25	S494	.	.	8
10	870820	920	302	1	3	.	16.5	0.25	S424	.	.	2
10	870820	920	302	1	3	.	16.5	0.25	S823	.	.	2
10	870820	920	302	1	3	.	16.5	0.25	H124	4	7	13
10	870820	925	302	2	3	.	16.5	0.25	S494	.	.	5
10	870820	925	302	2	3	.	16.5	0.25	S823	.	.	1
10	870820	925	302	2	3	.	16.5	0.25	H124	4	7	18
10	870820	935	302	3	3	.	16.5	0.25	S291	.	.	2
10	870820	935	302	3	3	.	16.5	0.25	S424	.	.	1
10	870820	935	302	3	3	.	16.5	0.25	S494	.	.	10
10	870820	935	302	3	3	.	16.5	0.25	S823	.	.	1
10	870820	935	302	3	3	.	16.5	0.25	H124	4	7	1
10	870820	1000	304	1	3	.	16.5	0.41	H128	4	7	1
10	870820	1000	304	1	3	.	16.5	0.41	S494	.	.	7
10	870820	1000	304	1	3	.	16.5	0.41	S503	.	.	1
10	870820	1005	304	2	3	.	16.5	0.41	S494	.	.	37
10	870820	1005	304	2	3	.	16.5	0.41	S503	.	.	5
10	870820	1005	304	2	3	.	16.5	0.41	S536	.	.	1
10	870820	1005	304	2	3	.	16.5	0.41	S424	.	.	2
10	870820	1005	304	2	3	.	16.5	0.41	H124	4	7	10
10	870820	1010	304	3	3	.	16.5	0.41	S494	.	.	15
10	870820	1010	304	3	3	.	16.5	0.41	S544	.	.	2
10	870820	1010	304	3	3	.	16.5	0.41	S503	.	.	2
10	870820	1010	304	3	3	.	16.5	0.41	S424	.	.	1
10	870820	1010	304	3	3	.	16.5	0.41	H124	4	7	3
10	870820	1040	305	1	3	.	16.0	0.17	S424	.	.	1
10	870820	1040	305	1	3	.	16.0	0.17	S544	.	.	5
10	870820	1040	305	1	3	.	16.0	0.17	S487	.	.	1
10	870820	1040	305	1	3	.	16.0	0.17	S494	.	.	12
10	870820	1040	305	1	3	.	16.0	0.17	S503	.	.	21
10	870820	1040	305	1	3	.	16.0	0.17	H124	4	7	31
10	870820	1050	305	2	3	.	16.0	0.17	S503	.	.	1
10	870820	1050	305	2	3	.	16.0	0.17	S544	.	.	1

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TRIP	DATE	TIME	STN	SET	HAUL	SECCHI	TEMP	CURR	SPEC	GROUP	STAGE	CATCH
10	870820	1050	305	2	3	.	16.0	0.17	S665	.	.	1
10	870820	1050	305	2	3	.	16.0	0.17	S494	.	.	3
10	870820	1050	305	2	3	.	16.0	0.17	H124	4	7	3
10	870820	1100	305	3	3	.	16.0	0.17	S424	.	.	1
10	870820	1235	306	1	3	.	17.0	0.15	S544	.	.	4
10	870820	1235	306	1	3	.	17.0	0.15	S487	.	.	9
10	870820	1235	306	1	3	.	17.0	0.15	S503	.	.	23
10	870820	1235	306	1	3	.	17.0	0.15	S424	.	.	1
10	870820	1235	306	1	3	.	17.0	0.15	S494	.	.	6
10	870820	1235	306	1	3	.	17.0	0.15	H124	4	7	8
10	870820	1240	306	2	3	.	17.0	0.15	S503	.	.	3
10	870820	1240	306	2	3	.	17.0	0.15	S424	.	.	1
10	870820	1240	306	2	3	.	17.0	0.15	S494	.	.	2
10	870820	1240	306	2	3	.	17.0	0.15	S487	.	.	1
10	870820	1240	306	2	3	.	17.0	0.15	H124	4	7	2
10	870820	1245	306	3	3	.	17.0	0.15	S503	.	.	13
10	870820	1245	306	3	3	.	17.0	0.15	S424	.	.	2
10	870820	1245	306	3	3	.	17.0	0.15	S544	.	.	3
10	870820	1245	306	3	3	.	17.0	0.15	H124	4	7	4
10	870820	1245	306	3	3	.	17.0	0.15	H118	4	7	2
11	870903	810	301	1	3	43	16.0	0.14	S544	.	.	1
11	870903	810	301	1	3	43	16.0	0.14	S424	.	.	5
11	870903	810	301	1	3	43	16.0	0.14	S503	.	.	5
11	870903	810	301	1	3	43	16.0	0.14	S494	.	.	9
11	870903	810	301	1	3	43	16.0	0.14	S823	.	.	2
11	870903	810	301	1	3	43	16.0	0.14	S487	.	.	3
11	870903	810	301	1	3	43	16.0	0.14	H124	4	7	2
11	870903	815	301	2	3	43	16.0	0.14	S503	.	.	4
11	870903	815	301	2	3	43	16.0	0.14	S424	.	.	5
11	870903	815	301	2	3	43	16.0	0.14	S487	.	.	4
11	870903	815	301	2	3	43	16.0	0.14	H124	4	7	2
11	870903	820	301	3	3	43	16.0	0.14	S503	.	.	18
11	870903	820	301	3	3	43	16.0	0.14	S487	.	.	1
11	870903	820	301	3	3	43	16.0	0.14	S544	.	.	2
11	870903	820	301	3	3	43	16.0	0.14	S823	.	.	2
11	870903	820	301	3	3	43	16.0	0.14	S494	.	.	12
11	870903	820	301	3	3	43	16.0	0.14	H124	4	7	4
11	870903	835	303	1	3	67	15.5	0.05	S503	.	.	42
11	870903	835	303	1	3	67	15.5	0.05	S424	.	.	1
11	870903	835	303	1	3	67	15.5	0.05	H124	4	7	1
11	870903	840	303	2	3	67	15.5	0.05	S665	.	.	1
11	870903	840	303	2	3	67	15.5	0.05	S503	.	.	1
11	870903	840	303	2	3	67	15.5	0.05	S424	.	.	6
11	870903	845	303	3	3	67	15.5	0.05	S424	.	.	5
11	870903	845	303	3	3	67	15.5	0.05	S665	.	.	1

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TRIP	DATE	TIME	STN	SET	HAUL	SECCHI	TEMP	CURR	SPEC	GROUP	STAGE	CATCH
11	870903	855	302	1	3	20	16.0	0.19	S503	.	.	1
11	870903	855	302	1	3	20	16.0	0.19	S494	.	.	4
11	870903	855	302	1	3	20	16.0	0.19	S823	.	.	1
11	870903	855	302	1	3	20	16.0	0.19	S544	.	.	1
11	870903	900	302	2	3	20	16.0	0.19	S291	.	.	4
11	870903	900	302	2	3	20	16.0	0.19	S536	.	.	6
11	870903	900	302	2	3	20	16.0	0.19	S544	.	.	7
11	870903	900	302	2	3	20	16.0	0.19	S523	.	.	8
11	870903	900	302	2	3	20	16.0	0.19	S503	.	.	4
11	870903	900	302	2	3	20	16.0	0.19	S494	.	.	20
11	870903	900	302	2	3	20	16.0	0.19	S424	.	.	4
11	870903	900	302	2	3	20	16.0	0.19	S487	.	.	1
11	870903	900	302	2	3	20	16.0	0.19	H124	4	7	6
11	870903	910	302	3	3	20	16.0	0.19	S503	.	.	16
11	870903	910	302	3	3	20	16.0	0.19	S823	.	.	2
11	870903	910	302	3	3	20	16.0	0.19	S494	.	.	15
11	870903	910	302	3	3	20	16.0	0.19	S544	.	.	1
11	870903	910	302	3	3	20	16.0	0.19	H124	4	7	1
11	870903	935	304	1	3	64	17.0	0.02	S503	.	.	2
11	870903	935	304	1	3	64	17.0	0.02	S494	.	.	110
11	870903	935	304	1	3	64	17.0	0.02	S487	.	.	2
11	870903	935	304	1	3	64	17.0	0.02	S424	.	.	9
11	870903	935	304	1	3	64	17.0	0.02	S665	.	.	3
11	870903	935	304	1	3	64	17.0	0.02	S544	.	.	7
11	870903	935	304	1	3	64	17.0	0.02	S823	.	.	1
11	870903	945	304	2	3	64	17.0	0.02	S494	.	.	66
11	870903	945	304	2	3	64	17.0	0.02	S424	.	.	4
11	870903	945	304	2	3	64	17.0	0.02	S503	.	.	18
11	870903	945	304	2	3	64	17.0	0.02	S487	.	.	1
11	870903	945	304	2	3	64	17.0	0.02	S823	.	.	1
11	870903	945	304	2	3	64	17.0	0.02	S536	.	.	20
11	870903	945	304	2	3	64	17.0	0.02	S665	.	.	2
11	870903	945	304	2	3	64	17.0	0.02	H124	4	7	5
11	870903	955	304	3	3	64	17.0	0.02	S487	.	.	2
11	870903	955	304	3	3	64	17.0	0.02	S424	.	.	11
11	870903	955	304	3	3	64	17.0	0.02	S503	.	.	22
11	870903	955	304	3	3	64	17.0	0.02	S291	.	.	1
11	870903	955	304	3	3	64	17.0	0.02	S665	.	.	6
11	870903	955	304	3	3	64	17.0	0.02	S494	.	.	111
11	870903	955	304	3	3	64	17.0	0.02	S536	.	.	12
11	870903	955	304	3	3	64	17.0	0.02	H124	4	7	2
11	870903	1020	305	1	3	21	17.0	0.32	H108	4	6	2
11	870903	1020	305	1	3	21	17.0	0.32	H124	4	7	6
11	870903	1020	305	1	3	21	17.0	0.32	S544	.	.	11
11	870903	1020	305	1	3	21	17.0	0.32	S536	.	.	19

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11	870903	1020	305	1	3	21	17.0	0.32	S503	.	.	105
11	870903	1020	305	1	3	21	17.0	0.32	S598	.	.	1
11	870903	1020	305	1	3	21	17.0	0.32	S494	.	.	16
11	870903	1020	305	1	3	21	17.0	0.32	S523	.	.	4
11	870903	1020	305	1	3	21	17.0	0.32	S823	.	.	1
11	870903	1020	305	1	3	21	17.0	0.32	S487	.	.	1
11	870903	1020	305	1	3	21	17.0	0.32	S291	.	.	1
11	870903	1030	305	2	3	21	17.0	0.32	S494	.	.	14
11	870903	1030	305	2	3	21	17.0	0.32	S503	.	.	9
11	870903	1030	305	2	3	21	17.0	0.32	S544	.	.	3
11	870903	1030	305	2	3	21	17.0	0.32	S823	.	.	1
11	870903	1030	305	2	3	21	17.0	0.32	H118	4	7	1
11	870903	1040	305	3	3	21	17.0	0.32	S503	.	.	4
11	870903	1040	305	3	3	21	17.0	0.32	S544	.	.	4
11	870903	1040	305	3	3	21	17.0	0.32	S494	.	.	37
11	870903	1040	305	3	3	21	17.0	0.32	S291	.	.	1
11	870903	1040	305	3	3	21	17.0	0.32	S823	.	.	1
11	870903	1040	305	3	3	21	17.0	0.32	H124	4	7	4
11	870903	1100	310	1	3	14	17.5	0.04	H128	4	6	1
11	870903	1100	310	1	3	14	17.5	0.04	S487	.	.	7
11	870903	1100	310	1	3	14	17.5	0.04	S544	.	.	8
11	870903	1100	310	1	3	14	17.5	0.04	S424	.	.	24
11	870903	1100	310	1	3	14	17.5	0.04	S503	.	.	96
11	870903	1100	310	1	3	14	17.5	0.04	S823	.	.	1
11	870903	1100	310	1	3	14	17.5	0.04	S494	.	.	3
11	870903	1100	310	1	3	14	17.5	0.04	H124	4	7	1
11	870903	1100	310	1	3	14	17.5	0.04	H118	4	7	1
11	870903	1110	310	2	3	14	17.5	0.04	S503	.	.	34
11	870903	1110	310	2	3	14	17.5	0.04	S424	.	.	1
11	870903	1110	310	2	3	14	17.5	0.04	S823	.	.	1
11	870903	1110	310	2	3	14	17.5	0.04	H124	4	7	1
11	870903	1115	310	3	3	14	17.5	0.04	S503	.	.	29
11	870903	1115	310	3	3	14	17.5	0.04	S424	.	.	2
11	870903	1115	310	3	3	14	17.5	0.04	S823	.	.	3
11	870903	1115	310	3	3	14	17.5	0.04	S494	.	.	21
11	870903	1115	310	3	3	14	17.5	0.04	H124	4	7	1
11	870903	1120	309	1	3	16	17.5	0.20	S487	.	.	3
11	870903	1120	309	1	3	16	17.5	0.20	S424	.	.	3
11	870903	1120	309	1	3	16	17.5	0.20	S544	.	.	3
11	870903	1120	309	1	3	16	17.5	0.20	S503	.	.	9
11	870903	1120	309	1	3	16	17.5	0.20	S494	.	.	3
11	870903	1120	309	1	3	16	17.5	0.20	H124	4	7	1
11	870903	1120	309	1	3	16	17.5	0.20	H118	4	7	1
11	870903	1125	309	2	3	16	17.5	0.20	S503	.	.	14
11	870903	1125	309	2	3	16	17.5	0.20	S494	.	.	2

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11	870903	1125	309	2	3	16	17.5	0.20	H124	4	7	1
11	870903	1130	309	3	3	16	17.5	0.20	S503	.	.	8
11	870903	1130	309	3	3	16	17.5	0.20	S494	.	.	30
11	870903	1130	309	3	3	16	17.5	0.20	H124	4	7	4
11	870903	1150	308	1	3	19	17.0	0.23	H108	4	6	1
11	870903	1150	308	1	3	19	17.0	0.23	S503	.	.	6
11	870903	1150	308	1	3	19	17.0	0.23	S544	.	.	1
11	870903	1150	308	1	3	19	17.0	0.23	S823	.	.	3
11	870903	1150	308	1	3	19	17.0	0.23	S494	.	.	29
11	870903	1200	308	2	3	19	17.0	0.23	S494	.	.	14
11	870903	1200	308	2	3	19	17.0	0.23	S503	.	.	2
11	870903	1200	308	2	3	19	17.0	0.23	S823	.	.	1
11	870903	1205	308	3	3	19	17.0	0.23	S503	.	.	18
11	870903	1205	308	3	3	19	17.0	0.23	S424	.	.	2
11	870903	1205	308	3	3	19	17.0	0.23	S494	.	.	10
11	870903	1245	306	1	3	.	19.0	0.00	S503	.	.	3
11	870903	1245	306	1	3	.	19.0	0.00	S494	.	.	39
11	870903	1245	306	1	3	.	19.0	0.00	S544	.	.	7
11	870903	1245	306	1	3	.	19.0	0.00	H124	4	7	13
11	870903	1250	306	2	3	.	19.0	0.00	S494	.	.	9
11	870903	1250	306	2	3	.	19.0	0.00	S823	.	.	1
11	870903	1250	306	2	3	.	19.0	0.00	H124	4	7	5
11	870903	1255	306	3	3	.	19.0	0.00	S494	.	.	22
11	870903	1255	306	3	3	.	19.0	0.00	S424	.	.	6
11	870903	1255	306	3	3	.	19.0	0.00	S544	.	.	3
11	870903	1255	306	3	3	.	19.0	0.00	H124	4	7	7
12	870917	830	301	1	3	91	17.0	0.05	S494	.	.	11
12	870917	830	301	1	3	91	17.0	0.05	S424	.	.	1
12	870917	830	301	1	3	91	17.0	0.05	H124	4	7	4
12	870917	840	301	2	3	91	17.0	0.05	S424	.	.	36
12	870917	840	301	2	3	91	17.0	0.05	S291	.	.	1
12	870917	840	301	2	3	91	17.0	0.05	S494	.	.	14
12	870917	840	301	2	3	91	17.0	0.05	S823	.	.	2
12	870917	840	301	2	3	91	17.0	0.05	S544	.	.	2
12	870917	840	301	2	3	91	17.0	0.05	H124	4	7	6
12	870917	845	301	3	3	91	17.0	0.05	S424	.	.	13
12	870917	845	301	3	3	91	17.0	0.05	S487	.	.	1
12	870917	845	301	3	3	91	17.0	0.05	S544	.	.	1
12	870917	845	301	3	3	91	17.0	0.05	S494	.	.	10
12	870917	845	301	3	3	91	17.0	0.05	H124	4	7	1
12	870917	900	303	1	3	135	14.5	0.04		.	.	0
12	870917	905	303	2	3	135	14.5	0.04	H124	4	7	1
12	870917	910	303	3	3	135	14.5	0.04	H124	4	7	1
12	870917	920	302	1	3	76	14.5	0.57	S494	.	.	2
12	870917	920	302	1	3	76	14.5	0.57	H124	4	7	1

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12	870917	920	302	1	3	76	14.5	0.57	H128	4	7	1
12	870917	925	302	2	3	76	14.5	0.57	H108	4	6	1
12	870917	925	302	2	3	76	14.5	0.57	H124	4	7	1
12	870917	925	302	2	3	76	14.5	0.57	S823	.	.	3
12	870917	925	302	2	3	76	14.5	0.57	S494	.	.	12
12	870917	930	302	3	3	76	14.5	0.57	S823	.	.	4
12	870917	930	302	3	3	76	14.5	0.57	S494	.	.	1
12	870917	940	308	1	3	99	15.0	0.25	S494	.	.	2
12	870917	940	308	1	3	99	15.0	0.25	S544	.	.	1
12	870917	945	308	2	3	99	15.0	0.25	S494	.	.	2
12	870917	945	308	2	3	99	15.0	0.25	S544	.	.	1
12	870917	945	308	2	3	99	15.0	0.25	H124	4	7	7
12	870917	950	308	3	3	99	15.0	0.25	H128	4	6	1
12	870917	950	308	3	3	99	15.0	0.25	H124	4	7	1
12	870917	1010	304	1	3	68	14.5	0.00	S291	.	.	1
12	870917	1010	304	1	3	68	14.5	0.00	S494	.	.	26
12	870917	1010	304	1	3	68	14.5	0.00	S544	.	.	19
12	870917	1010	304	1	3	68	14.5	0.00	S424	.	.	1
12	870917	1010	304	1	3	68	14.5	0.00	H124	4	7	2
12	870917	1020	304	2	3	68	14.5	0.00	S494	.	.	44
12	870917	1020	304	2	3	68	14.5	0.00	S544	.	.	21
12	870917	1020	304	2	3	68	14.5	0.00	S424	.	.	7
12	870917	1020	304	2	3	68	14.5	0.00	H124	4	7	2
12	870917	1025	304	3	3	68	14.5	0.00	S494	.	.	45
12	870917	1025	304	3	3	68	14.5	0.00	S544	.	.	27
12	870917	1025	304	3	3	68	14.5	0.00	S424	.	.	8
12	870917	1025	304	3	3	68	14.5	0.00	S665	.	.	1
12	870917	1040	309	1	3	122	15.0	0.07	S424	.	.	1
12	870917	1040	309	1	3	122	15.0	0.07	S544	.	.	1
12	870917	1040	309	1	3	122	15.0	0.07	S494	.	.	1
12	870917	1045	309	2	3	122	15.0	0.07	H108	4	6	9
12	870917	1045	309	2	3	122	15.0	0.07	H124	4	7	2
12	870917	1045	309	2	3	122	15.0	0.07	S487	.	.	1
12	870917	1045	309	2	3	122	15.0	0.07	S494	.	.	1
12	870917	1045	309	2	3	122	15.0	0.07	S424	.	.	4
12	870917	1045	309	2	3	122	15.0	0.07	S503	.	.	1
12	870917	1050	309	3	3	122	15.0	0.07	H108	4	6	1
12	870917	1050	309	3	3	122	15.0	0.07	S503	.	.	1
12	870917	1050	309	3	3	122	15.0	0.07	S494	.	.	2
12	870917	1050	309	3	3	122	15.0	0.07	H124	4	7	2
12	870917	1105	310	1	3	84	15.0	0.32	S494	.	.	1
12	870917	1105	310	1	3	84	15.0	0.32	S503	.	.	9
12	870917	1110	310	2	3	84	15.0	0.32	S424	.	.	9
12	870917	1110	310	2	3	84	15.0	0.32	S503	.	.	16
12	870917	1110	310	2	3	84	15.0	0.32	S494	.	.	6

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TRIP	DATE	TIME	STN	SET	HAUL	SECCHI	TEMP	CURR	SPEC	GROUP	STAGE	CATCH
12	870917	1110	310	2	3	84	15.0	0.32	S523	.	.	1
12	870917	1110	310	2	3	84	15.0	0.32	H124	4	7	25
12	870917	1120	310	3	3	84	15.0	0.32	S503	.	.	2
12	870917	1120	310	3	3	84	15.0	0.32	S494	.	.	3
12	870917	1120	310	3	3	84	15.0	0.32	H124	4	7	1
12	870917	1130	305	1	3	107	15.5	0.32	H128	4	6	1
12	870917	1130	305	1	3	107	15.5	0.32	H108	4	6	1
12	870917	1130	305	1	3	107	15.5	0.32	S487	.	.	1
12	870917	1130	305	1	3	107	15.5	0.32	S494	.	.	2
12	870917	1130	305	1	3	107	15.5	0.32	H124	4	7	6
12	870917	1135	305	2	3	107	15.5	0.32	S494	.	.	2
12	870917	1135	305	2	3	107	15.5	0.32	S544	.	.	1
12	870917	1135	305	2	3	107	15.5	0.32	H124	4	7	4
12	870917	1140	305	3	3	107	15.5	0.32	S494	.	.	4
12	870917	1140	305	3	3	107	15.5	0.32	S503	.	.	3
12	870917	1140	305	3	3	107	15.5	0.32	S823	.	.	1
12	870917	1140	305	3	3	107	15.5	0.32	H124	4	7	26
12	870917	1235	306	1	3	.	16.0	0.00	H124	4	7	30
12	870917	1235	306	1	3	.	16.0	0.00	S494	.	.	26
12	870917	1235	306	1	3	.	16.0	0.00	S424	.	.	1
12	870917	1250	306	2	3	.	16.0	0.00	S494	.	.	62
12	870917	1250	306	2	3	.	16.0	0.00	S424	.	.	7
12	870917	1250	306	2	3	.	16.0	0.00	H124	4	7	5
12	870917	1255	306	3	3	.	16.0	0.00	S494	.	.	48
12	870917	1255	306	3	3	.	16.0	0.00	S544	.	.	2
12	870917	1255	306	3	3	.	16.0	0.00	S424	.	.	2
12	870917	1255	306	3	3	.	16.0	0.00	H124	4	7	19
12	870917	1255	306	3	3	.	16.0	0.00	H118	4	7	1
13	871015	840	301	1	3	122	10.0	0.02	S523	.	.	3
13	871015	840	301	1	3	122	10.0	0.02	S494	.	.	9
13	871015	840	301	1	3	122	10.0	0.02	S424	.	.	1
13	871015	845	301	2	3	122	10.0	0.02	S424	.	.	1
13	871015	845	301	2	3	122	10.0	0.02	S823	.	.	1
13	871015	845	301	2	3	122	10.0	0.02	H118	4	7	1
13	871015	850	301	3	3	122	10.0	0.02	S494	.	.	1
13	871015	910	303	1	3	213	10.0	0.05	S665	.	.	1
13	871015	915	303	2	3	213	10.0	0.05		.	.	0
13	871015	920	303	3	3	213	10.0	0.05		.	.	0
13	871015	945	302	1	3	.	10.0	0.46		.	.	0
13	871015	950	302	2	3	.	10.0	0.46	S544	.	.	4
13	871015	955	302	3	3	.	10.0	0.46		.	.	0
13	871015	1010	308	1	3	137	10.0	0.22	H115	4	6	1
13	871015	1010	308	1	3	137	10.0	0.22	H115	4	3	1
13	871015	1010	308	1	3	137	10.0	0.22	S487	.	.	1
13	871015	1010	308	1	3	137	10.0	0.22	S823	.	.	1

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TRIP	DATE	TIME	STN	SET	HAUL	SECCHI	TEMP	CURR	SPEC	GROUP	STAGE	CATCH
13	871015	1010	308	1	3	137	10.0	0.22	H124	4	7	8
13	871015	1020	308	2	3	137	10.0	0.22	S544	.	.	3
13	871015	1025	308	3	3	137	10.0	0.22	H124	4	7	2
13	871015	1025	308	3	3	137	10.0	0.22	S823	.	.	1
13	871015	1055	309	1	3	107	10.0	0.44	S494	.	.	1
13	871015	1100	309	2	3	107	10.0	0.44	S523	.	.	1
13	871015	1100	309	2	3	107	10.0	0.44	S494	.	.	1
13	871015	1110	309	3	3	107	10.0	0.44	H124	4	7	16
13	871015	1130	310	1	3	61	10.5	0.37	H127	4	6	1
13	871015	1130	310	1	3	61	10.5	0.37	S823	.	.	1
13	871015	1130	310	1	3	61	10.5	0.37	H124	4	7	1
13	871015	1130	310	1	3	61	10.5	0.37	S494	.	.	1
13	871015	1135	310	2	3	61	10.5	0.37	S494	.	.	3
13	871015	1135	310	2	3	61	10.5	0.37	H124	4	7	5
13	871015	1145	310	3	3	61	10.5	0.37	H124	4	7	1
13	871015	1145	310	3	3	61	10.5	0.37	S494	.	.	3
13	871015	1200	305	1	3	107	11.0	0.46	S494	.	.	2
13	871015	1200	305	1	3	107	11.0	0.46	H124	4	7	6
13	871015	1205	305	2	3	107	11.0	0.46	H124	4	7	2
13	871015	1210	305	3	3	107	11.0	0.46	H124	4	7	5
13	871015	1210	305	3	3	107	11.0	0.46	S494	.	.	1
13	871015	1320	306	1	3	.	12.5	0.00	S494	.	.	13
13	871015	1320	306	1	3	.	12.5	0.00	S523	.	.	5
13	871015	1320	306	1	3	.	12.5	0.00	S823	.	.	1
13	871015	1320	306	1	3	.	12.5	0.00	S424	.	.	1
13	871015	1325	306	2	3	.	12.5	0.00	S291	.	.	1
13	871015	1325	306	2	3	.	12.5	0.00	S523	.	.	5
13	871015	1325	306	2	3	.	12.5	0.00	S494	.	.	28
13	871015	1330	306	3	3	.	12.5	0.00	S423	.	.	6
13	871015	1330	306	3	3	.	12.5	0.00	S424	.	.	3
13	871015	1330	306	3	3	.	12.5	0.00	S494	.	.	27
13	871015	1330	306	3	3	.	12.5	0.00	S823	.	.	1
13	871015	1330	306	3	3	.	12.5	0.00	H124	4	7	1
14	871029	920	301	1	3	137	12.5	0.04	H115	4	6	1
14	871029	920	301	1	3	137	12.5	0.04	H124	4	7	13
14	871029	920	301	1	3	137	12.5	0.04	S291	.	.	1
14	871029	920	301	1	3	137	12.5	0.04	S665	.	.	1
14	871029	920	301	1	3	137	12.5	0.04	S494	.	.	3
14	871029	920	301	1	3	137	12.5	0.04	S523	.	.	2
14	871029	920	301	1	3	137	12.5	0.04	S424	.	.	1
14	871029	930	301	2	3	137	12.5	0.04	H118	4	7	1
14	871029	930	301	2	3	137	12.5	0.04	S823	.	.	1
14	871029	930	301	2	3	137	12.5	0.04	S494	.	.	2
14	871029	940	301	3	3	137	12.5	0.04	H127	4	6	1
14	871029	940	301	3	3	137	12.5	0.04	S424	.	.	1

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TRIP	DATE	TIME	STN	SET	HAUL	SECCHI	TEMP	CURR	SPEC	GROUP	STAGE	CATCH
14	871029	940	301	3	3	137	12.5	0.04	S494	.	.	6
14	871029	940	301	3	3	137	12.5	0.04	H124	4	7	2
14	871029	955	303	1	3	183	9.0	0.00	S665	.	.	1
14	871029	955	303	1	3	183	9.0	0.00	S494	.	.	2
14	871029	1000	303	2	3	183	9.0	0.00	S494	.	.	5
14	871029	1005	303	3	3	183	9.0	0.00	S494	.	.	3
14	871029	1020	302	1	3	.	8.0	0.38	S494	.	.	1
14	871029	1020	302	1	3	.	8.0	0.38	S523	.	.	5
14	871029	1025	302	2	3	.	8.0	0.38	S424	.	.	1
14	871029	1025	302	2	3	.	8.0	0.38	S523	.	.	1
14	871029	1025	302	2	3	.	8.0	0.38	S487	.	.	1
14	871029	1025	302	2	3	.	8.0	0.38	H124	4	7	1
14	871029	1030	302	3	3	.	8.0	0.38	S523	.	.	6
14	871029	1040	308	1	3	137	8.0	0.23	S291	.	.	1
14	871029	1040	308	1	3	137	8.0	0.23	H124	4	7	1
14	871029	1045	308	2	3	137	8.0	0.23	S494	.	.	1
14	871029	1050	308	3	3	137	8.0	0.23	S291	.	.	1
14	871029	1050	308	3	3	137	8.0	0.23	H127	4	6	1
14	871029	1050	308	3	3	137	8.0	0.23	H124	4	7	1
14	871029	1115	309	1	3	.	8.0	0.37	S823	.	.	1
14	871029	1115	309	1	3	.	8.0	0.37	S523	.	.	1
14	871029	1120	309	2	3	.	8.0	0.37		.	.	0
14	871029	1125	309	3	3	.	8.0	0.37	S523	.	.	1
14	871029	1140	310	1	3	183	8.0	0.24	H112	4	6	1
14	871029	1140	310	1	3	183	8.0	0.24	S523	.	.	1
14	871029	1145	310	2	3	183	8.0	0.24	H108	4	6	1
14	871029	1150	310	3	3	183	8.0	0.24	H127	4	6	1
14	871029	1150	310	3	3	183	8.0	0.24	H124	4	7	3
14	871029	1200	305	1	3	.	9.0	0.29	S544	.	.	3
14	871029	1200	305	1	3	.	9.0	0.29	S291	.	.	3
14	871029	1200	305	1	3	.	9.0	0.29	H124	4	7	5
14	871029	1210	305	2	3	.	9.0	0.29		.	.	0
14	871029	1215	305	3	3	.	9.0	0.29	S823	.	.	1
14	871029	1215	305	3	3	.	9.0	0.29	S523	.	.	1
14	871029	1310	306	1	3	.	10.0	0.00	S544	.	.	46
14	871029	1310	306	1	3	.	10.0	0.00	S665	.	.	1
14	871029	1310	306	1	3	.	10.0	0.00	H124	4	7	11
14	871029	1315	306	2	3	.	10.0	0.00	S494	.	.	20
14	871029	1315	306	2	3	.	10.0	0.00	S823	.	.	2
14	871029	1330	306	3	3	.	10.0	0.00	S494	.	.	9
14	871029	1330	306	3	3	.	10.0	0.00	S523	.	.	1
15	871112	910	302	1	3	.	8.0	.	S544	.	.	5
15	871112	915	302	2	3	.	8.0	.	H112	4	6	1
15	871112	925	302	3	3	.	8.0	.	S544	.	.	4
15	871112	1005	310	1	3	.	8.0	.	S291	.	.	5

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TRIP	DATE	TIME	STN	SET	HAUL	SECCHI	TEMP	CURR	SPEC	GROUP	STAGE	CATCH
15	871112	1005	310	1	3	.	8.0	.	S823	.	.	1
15	871112	1005	310	1	3	.	8.0	.	H124	4	7	15
15	871112	1020	310	2	3	.	8.0	.	H112	4	6	19
15	871112	1020	310	2	3	.	8.0	.	S823	.	.	1
15	871112	1025	310	3	3	.	8.0	.	S823	.	.	4
15	871112	1025	310	3	3	.	8.0	.	H112	4	6	1
15	871112	1100	305	1	3	.	8.0	.	S544	.	.	4
15	871112	1100	305	1	3	.	8.0	.	S487	.	.	1
15	871112	1100	305	1	3	.	8.0	.	S291	.	.	1
15	871112	1100	305	1	3	.	8.0	.	S494	.	.	1
15	871112	1100	305	1	3	.	8.0	.	H128	4	6	1
15	871112	1100	305	1	3	.	8.0	.	H124	4	7	1
15	871112	1105	305	2	3	.	8.0	.	H112	4	6	1
15	871112	1105	305	2	3	.	8.0	.	S291	.	.	1
15	871112	1105	305	2	3	.	8.0	.	H127	4	6	1
15	871112	1105	305	2	3	.	8.0	.	H115	4	6	1
15	871112	1105	305	2	3	.	8.0	.	S544	.	.	1
15	871112	1105	305	2	3	.	8.0	.	S487	.	.	1
15	871112	1110	305	3	3	.	8.0	.	S823	.	.	1
15	871112	1110	305	3	3	.	8.0	.	S291	.	.	1
15	871112	1110	305	3	3	.	8.0	.	S544	.	.	1
15	871112	1220	308	1	3	.	8.5	.	S291	.	.	6
15	871112	1220	308	1	3	.	8.5	.	H124	4	7	1
15	871112	1220	308	1	3	.	8.5	.	S544	.	.	1
15	871112	1225	308	2	3	.	8.5	.	H127	4	6	1
15	871112	1225	308	2	3	.	8.5	.	H124	4	7	1
15	871112	1225	308	2	3	.	8.5	.	H115	4	6	1
15	871112	1225	308	2	3	.	8.5	.	S291	.	.	4
15	871112	1225	308	2	3	.	8.5	.	S494	.	.	3
15	871112	1225	308	2	3	.	8.5	.	S544	.	.	1
15	871112	1230	308	3	3	.	8.5	.	H112	4	6	1
15	871112	1230	308	3	3	.	8.5	.	H115	4	6	1
15	871112	1230	308	3	3	.	8.5	.	S424	.	.	2
15	871112	1230	308	3	3	.	8.5	.	S544	.	.	1
15	871112	1230	308	3	3	.	8.5	.	S494	.	.	4
15	871112	1230	308	3	3	.	8.5	.	S487	.	.	1
15	871112	1250	303	1	3	.	10.5	.	S544	.	.	1
15	871112	1255	303	2	3	.	10.5	.	S291	.	.	1
15	871112	1300	303	3	3	.	10.5	.		.	.	0
15	871112	1315	301	1	3	.	.	.	S424	.	.	1
15	871112	1315	301	1	3	.	.	.	S494	.	.	3
15	871112	1315	301	1	3	.	.	.	S823	.	.	1
15	871112	1315	301	1	3	.	.	.	S523	.	.	4
15	871112	1315	301	1	3	.	.	.	H124	4	7	2
15	871112	1320	301	2	3	.	.	.	H124	4	7	2

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TRIP	DATE	TIME	STN	SET	HAUL	SECCHI	TEMP	CURR	SPEC	GROUP	STAGE	CATCH
15	871112	1320	301	2	3	.	.	.	S291	.	.	1
15	871112	1320	301	2	3	.	.	.	S424	.	.	1
15	871112	1320	301	2	3	.	.	.	S494	.	.	7
15	871112	1320	301	2	3	.	.	.	S523	.	.	4
15	871112	1325	301	3	3	.	.	.	S424	.	.	2
15	871112	1325	301	3	3	.	.	.	S291	.	.	1
15	871112	1325	301	3	3	.	.	.	S523	.	.	4
15	871112	1325	301	3	3	.	.	.	S665	.	.	1
15	871112	1325	301	3	3	.	.	.	H124	4	7	4
15	871112	1325	301	3	3	.	.	.	H118	4	7	1
15	871112	1500	306	1	3	.	.	.	H124	4	7	5
15	871112	1500	306	1	3	.	.	.	S494	.	.	8
15	871112	1500	306	1	3	.	.	.	S523	.	.	2
15	871112	1500	306	1	3	.	.	.	S424	.	.	5
15	871112	1510	306	2	3	.	.	.	H124	4	7	3
15	871112	1510	306	2	3	.	.	.	S523	.	.	3
15	871112	1510	306	2	3	.	.	.	S494	.	.	12
15	871112	1510	306	2	3	.	.	.	S424	.	.	9
15	871112	1515	306	3	3	.	.	.	H124	4	7	3
15	871112	1515	306	3	3	.	.	.	S665	.	.	1
15	871112	1515	306	3	3	.	.	.	S523	.	.	3
15	871112	1515	306	3	3	.	.	.	S494	.	.	32
15	871112	1515	306	3	3	.	.	.	S424	.	.	25
16	871209	925	301	1	3	61	4.0	0.08	S424	.	.	8
16	871209	925	301	1	3	61	4.0	0.08	S523	.	.	3
16	871209	925	301	1	3	61	4.0	0.08	S494	.	.	23
16	871209	930	301	2	3	61	4.0	0.08	S291	.	.	1
16	871209	930	301	2	3	61	4.0	0.08	S523	.	.	1
16	871209	930	301	2	3	61	4.0	0.08	S494	.	.	1
16	871209	935	301	3	3	61	4.0	0.08	S523	.	.	3
16	871209	935	301	3	3	61	4.0	0.08	S494	.	.	1
16	871209	935	301	3	3	61	4.0	0.08	S665	.	.	1
16	871209	1010	303	1	3	137	4.5	0.00	S494	.	.	1
16	871209	1010	303	1	3	137	4.5	0.00	S823	.	.	1
16	871209	1015	303	2	3	137	4.5	0.00		.	.	0
16	871209	1020	303	3	3	137	4.5	0.00		.	.	0
16	871209	1035	302	1	3	61	4.0	0.26	S494	.	.	1
16	871209	1035	302	1	3	61	4.0	0.26	H128	4	7	1
16	871209	1040	302	2	3	61	4.0	0.26	S487	.	.	2
16	871209	1040	302	2	3	61	4.0	0.26	S503	.	.	1
16	871209	1040	302	2	3	61	4.0	0.26	S823	.	.	1
16	871209	1040	302	2	3	61	4.0	0.26	S523	.	.	5
16	871209	1045	302	3	3	61	4.0	0.26	S823	.	.	1
16	871209	1045	302	3	3	61	4.0	0.26	H124	4	7	1
16	871209	1055	308	1	3	91	4.0	0.16		.	.	0

CATCH DATA - FRASER RIVER
AGASSIZ 1987 - 1988

TRIP	DATE	TIME	STN	SET	HAUL	SECCHI	TEMP	CURR	SPEC	GROUP	STAGE	CATCH
16	871209	1100	308	2	3	91	4.0	0.16	S494	.	.	2
16	871209	1100	308	2	3	91	4.0	0.16	S523	.	.	1
16	871209	1110	308	3	3	91	4.0	0.16	S494	.	.	1
16	871209	1125	310	1	3	76	4.0	0.06	S494	.	.	1
16	871209	1125	310	1	3	76	4.0	0.06	H112	4	6	3
16	871209	1130	310	2	3	76	4.0	0.06	S494	.	.	1
16	871209	1140	310	3	3	76	4.0	0.06		.	.	0
16	871209	1145	305	1	3	107	3.5	0.33	S544	.	.	3
16	871209	1145	305	1	3	107	3.5	0.33	S291	.	.	4
16	871209	1145	305	1	3	107	3.5	0.33	S494	.	.	1
16	871209	1145	305	1	3	107	3.5	0.33	H124	4	7	4
16	871209	1150	305	2	3	107	3.5	0.33	S291	.	.	4
16	871209	1150	305	2	3	107	3.5	0.33	H112	4	6	1
16	871209	1200	305	3	3	107	3.5	0.33		.	.	0
16	871209	1350	306	1	3	137	4.0	0.00	S494	.	.	13
16	871209	1355	306	2	3	137	4.0	0.00	S494	.	.	4
16	871209	1355	306	2	3	137	4.0	0.00	S665	.	.	1
16	871209	1400	306	3	3	137	4.0	0.00	S494	.	.	3
1	880127	905	301	1	3	122	1.5	0.09	S494	.	.	1
1	880127	910	301	2	3	122	1.5	0.09	S494	.	.	2
1	880127	915	301	3	3	122	1.5	0.09		.	.	0
1	880127	935	303	1	3	335	4.0	0.00		.	.	0
1	880127	940	303	2	3	335	4.0	0.00	S523	.	.	1
1	880127	940	303	2	3	335	4.0	0.00	S494	.	.	1
1	880127	945	303	3	3	335	4.0	0.00		.	.	0
1	880127	1000	302	1	3	183	1.5	0.23		.	.	0
1	880127	1010	302	2	3	183	1.5	0.23		.	.	0
1	880127	1020	302	3	3	183	1.5	0.23	S523	.	.	1
1	880127	1025	308	1	3	122	1.5	0.16	S494	.	.	1
1	880127	1030	308	2	3	122	1.5	0.16		.	.	0
1	880127	1035	308	3	3	122	1.5	0.16		.	.	0
1	880127	1100	310	1	3	122	2.0	0.05		.	.	0
1	880127	1105	310	2	3	122	2.0	0.05	S823	.	.	1
1	880127	1110	310	3	3	122	2.0	0.05	S823	.	.	1
1	880127	1120	305	1	3	122	2.0	0.28		.	.	0
1	880127	1125	305	2	3	122	2.0	0.28		.	.	0
1	880127	1130	305	3	3	122	2.0	0.28	H128	1	6	1
1	880127	1130	305	3	3	122	2.0	0.28	S291	.	.	1
2	880210	920	301	1	3	154	2.0	0.08	S494	.	.	2
2	880210	925	301	2	3	154	2.0	0.08	S523	.	.	4
2	880210	930	301	3	3	154	2.0	0.08	S523	.	.	4
2	880210	930	301	3	3	154	2.0	0.08	S494	.	.	2
2	880210	945	303	1	3	213	4.5	0.00		.	.	0
2	880210	950	303	2	3	213	4.5	0.00		.	.	0
2	880210	955	303	3	3	213	4.5	0.00		.	.	0

CATCH DATA - FRASER RIVER
AGASSIZ 1987 - 1988

TRIP	DATE	TIME	STN	SET	HAUL	SECCHI	TEMP	CURR	SPEC	GROUP	STAGE	CATCH
2	880210	1005	302	1	3	122	2.0	0.20	S494	.	.	1
2	880210	1010	302	2	3	122	2.0	0.20		.	.	0
2	880210	1015	302	3	3	122	2.0	0.20		.	.	0
2	880210	1025	308	1	3	137	2.0	0.20	S494	.	.	1
2	880210	1030	308	2	3	137	2.0	0.20	S494	.	.	1
2	880210	1030	308	2	3	137	2.0	0.20	S523	.	.	1
2	880210	1030	308	2	3	137	2.0	0.20	H127	4	6	1
2	880210	1035	308	3	3	137	2.0	0.20		.	.	0
2	880210	1100	310	1	3	91	2.0	0.06		.	.	0
2	880210	1105	310	2	3	91	2.0	0.06		.	.	0
2	880210	1110	310	3	3	91	2.0	0.06	S823	.	.	1
2	880210	1120	305	1	3	152	2.0	0.33	S544	.	.	1
2	880210	1120	305	1	3	152	2.0	0.33	S291	.	.	1
2	880210	1125	305	2	3	152	2.0	0.33		.	.	0
2	880210	1130	305	3	3	152	2.0	0.33	H127	1	6	1
3	880308	950	301	1	3	99	3.0	.	S291	.	.	3
3	880308	950	301	1	3	99	3.0	.	S494	.	.	1
3	880308	950	301	1	3	99	3.0	.	H112	4	3	1
3	880308	955	301	2	3	99	3.0	.	H108	4	3	1
3	880308	1000	301	3	3	99	3.0	.	S494	.	.	7
3	880308	1020	303	1	3	122	6.0	.	S036	.	.	12
3	880308	1020	303	1	3	122	6.0	.	S665	.	.	1
3	880308	1030	303	2	3	122	6.0	.	S036	.	.	1
3	880308	1035	303	3	3	122	6.0	.		.	.	0
3	880308	1050	302	1	3	91	3.5	.		.	.	0
3	880308	1100	302	2	3	91	3.5	.	H108	4	3	1
3	880308	1105	302	3	3	91	3.5	.		.	.	0
3	880308	1110	308	1	3	122	4.0	.	H127	4	6	4
3	880308	1110	308	1	3	122	4.0	.	S291	.	.	2
3	880308	1115	308	2	3	122	4.0	.	S291	.	.	1
3	880308	1115	308	2	3	122	4.0	.	H127	4	6	1
3	880308	1120	308	3	3	122	4.0	.	S494	.	.	2
3	880308	1140	310	1	3	91	3.0	.		.	.	0
3	880308	1145	310	2	3	91	3.0	.		.	.	0
3	880308	1150	310	3	3	91	3.0	.	S494	.	.	1
3	880308	1200	305	1	3	122	3.5	.	S291	.	.	1
3	880308	1205	305	2	3	122	3.5	.		.	.	0
3	880308	1210	305	3	3	122	3.5	.		.	.	0
3	880308	1320	306	1	3	.	6.0	.	H124	4	4	8
3	880308	1320	306	1	3	.	6.0	.	H118	4	4	4
3	880308	1325	306	2	3	.	6.0	.	S494	.	.	8
3	880308	1325	306	2	3	.	6.0	.	S665	.	.	1
3	880308	1325	306	2	3	.	6.0	.	S523	.	.	2
3	880308	1330	306	3	3	.	6.0	.	S494	.	.	1
3	880308	1330	306	3	3	.	6.0	.	H118	4	4	1

CATCH DATA - FRASER RIVER
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TRIP	DATE	TIME	STN	SET	HAUL	SECCHI	TEMP	CURR	SPEC	GROUP	STAGE	CATCH
4	880323	900	301	1	3	107	4.0	.	S291	.	.	2
4	880323	900	301	1	3	107	4.0	.	H108	4	3	1
4	880323	905	301	2	3	107	4.0	.	S291	.	.	2
4	880323	905	301	2	3	107	4.0	.	H112	4	3	1
4	880323	905	301	2	3	107	4.0	.	S494	.	.	3
4	880323	910	301	3	3	107	4.0	.	S823	.	.	2
4	880323	930	303	1	3	183	6.0	.	H118	4	4	3
4	880323	930	303	1	3	183	6.0	.	H112	4	3	2
4	880323	935	303	2	3	183	6.0	.	H118	4	3	1
4	880323	940	303	3	3	183	6.0	.	S823	.	.	1
4	880323	955	302	1	3	76	4.0	.	H112	4	3	1
4	880323	1000	302	2	3	76	4.0	.	S291	.	.	1
4	880323	1005	302	3	3	76	4.0	.		.	.	0
4	880323	1015	308	1	3	91	4.0	.	H127	4	6	2
4	880323	1015	308	1	3	91	4.0	.	H112	4	3	1
4	880323	1015	308	1	3	91	4.0	.	S291	.	.	3
4	880323	1015	308	1	3	91	4.0	.	S523	.	.	3
4	880323	1020	308	2	3	91	4.0	.	S823	.	.	1
4	880323	1020	308	2	3	91	4.0	.	S291	.	.	1
4	880323	1020	308	2	3	91	4.0	.	H112	4	3	1
4	880323	1030	308	3	3	91	4.0	.	S291	.	.	1
4	880323	1045	310	1	3	61	4.0	.	S494	.	.	1
4	880323	1050	310	2	3	61	4.0	.		.	.	0
4	880323	1055	310	3	3	61	4.0	.	S036	.	.	1
4	880323	1055	310	3	3	61	4.0	.	S999	.	.	5
4	880323	1105	305	1	3	61	4.0	.	S544	.	.	3
4	880323	1105	305	1	3	61	4.0	.	S291	.	.	3
4	880323	1105	305	1	3	61	4.0	.	H112	4	3	4
4	880323	1110	305	2	3	61	4.0	.	H112	4	3	18
4	880323	1115	305	3	3	61	4.0	.	S544	.	.	1
4	880323	1115	305	3	3	61	4.0	.	S291	.	.	1
4	880323	1230	306	1	3	.	7.5	.	S494	.	.	5
4	880323	1230	306	1	3	.	7.5	.	S503	.	.	3
4	880323	1235	306	2	3	.	7.5	.	S503	.	.	3
4	880323	1235	306	2	3	.	7.5	.	S494	.	.	8
4	880323	1235	306	2	3	.	7.5	.	H124	4	4	2
4	880323	1235	306	2	3	.	7.5	.	H118	4	4	1
4	870528	1005	305	3	3	25	12.0	0.05	H124	4	3	5
4	870528	1005	305	3	3	25	12.0	0.05	H124	4	3	5
4	880323	1245	306	3	3	.	7.5	.	S523	.	.	4
4	880323	1245	306	3	3	.	7.5	.	S494	.	.	13
4	880323	1245	306	3	3	.	7.5	.	S503	.	.	2
5	880413	725	301	1	3	33	7.5	0.10	S544	.	.	1
5	880413	725	301	1	3	33	7.5	0.10	S503	.	.	1
5	880413	725	301	1	3	33	7.5	0.10	S523	.	.	1

CATCH DATA - FRASER RIVER
AGASSIZ 1987 - 1988

TRIP	DATE	TIME	STN	SET	HAUL	SECCHI	TEMP	CURR	SPEC	GROUP	STAGE	CATCH
5	880413	725	301	1	3	33	7.5	0.10	S999	.	.	16
5	880413	725	301	1	3	33	7.5	0.10	S494	.	.	1
5	880413	725	301	1	3	33	7.5	0.10	H112	4	3	2
5	880413	725	301	1	3	33	7.5	0.10	H108	4	3	1
5	880413	745	301	2	3	33	7.5	0.10	S823	.	.	3
5	880413	745	301	2	3	33	7.5	0.10	H124	4	4	1
5	880413	745	301	2	3	33	7.5	0.10	S494	.	.	1
5	880413	745	301	2	3	33	7.5	0.10	H108	4	3	1
5	880413	745	301	2	3	33	7.5	0.10	S523	.	.	1
5	880413	745	301	2	3	33	7.5	0.10	S999	.	.	50
5	880413	800	301	3	3	33	7.5	0.10	H108	4	3	10
5	880413	800	301	3	3	33	7.5	0.10	S494	.	.	1
5	880413	820	303	1	3	290	9.5	0.00		.	.	0
5	880413	825	303	2	3	290	9.5	0.00		.	.	0
5	880413	830	303	3	3	290	9.5	0.00		.	.	0
5	880413	835	302	1	3	46	7.0	0.32	H124	4	4	1
5	880413	835	302	1	3	46	7.0	0.32	H112	4	3	6
5	880413	835	302	1	3	46	7.0	0.32	S291	.	.	1
5	880413	835	302	1	3	46	7.0	0.32	S823	.	.	1
5	880413	835	302	1	3	46	7.0	0.32	S494	.	.	5
5	880413	835	302	1	3	46	7.0	0.32	S523	.	.	1
5	880413	845	302	2	3	46	7.0	0.32	S823	.	.	4
5	880413	845	302	2	3	46	7.0	0.32	S523	.	.	2
5	880413	845	302	2	3	46	7.0	0.32	H112	4	3	2
5	880413	850	302	3	3	46	7.0	0.32	S823	.	.	2
5	880413	850	302	3	3	46	7.0	0.32	S494	.	.	5
5	880413	850	302	3	3	46	7.0	0.32	H108	4	3	1
5	880413	850	302	3	3	46	7.0	0.32	S523	.	.	8
5	880413	905	308	1	3	38	7.0	0.22	H127	1	6	1
5	880413	905	308	1	3	38	7.0	0.22	S544	.	.	18
5	880413	905	308	1	3	38	7.0	0.22	S291	.	.	3
5	880413	905	308	1	3	38	7.0	0.22	H124	4	3	1
5	880413	905	308	1	3	38	7.0	0.22	H112	4	3	6
5	880413	905	308	1	3	38	7.0	0.22	S487	.	.	1
5	880413	910	308	2	3	38	7.0	0.22	H124	4	4	3
5	880413	910	308	2	3	38	7.0	0.22	S544	.	.	3
5	880413	910	308	2	3	38	7.0	0.22	S291	.	.	1
5	880413	910	308	2	3	38	7.0	0.22	S494	.	.	3
5	880413	915	308	3	3	38	7.0	0.22	S424	.	.	3
5	880413	915	308	3	3	38	7.0	0.22	S523	.	.	1
5	880413	915	308	3	3	38	7.0	0.22	S494	.	.	4
5	880413	915	308	3	3	38	7.0	0.22	H124	4	4	1
5	880413	955	310	1	3	30	7.0	0.04	S424	.	.	1
5	880413	955	310	1	3	30	7.0	0.04	S503	.	.	4
5	880413	955	310	1	3	30	7.0	0.04	H112	4	3	1

CATCH DATA - FRASER RIVER
AGASSIZ 1987 - 1988

TRIP	DATE	TIME	STN	SET	HAUL	SECCHI	TEMP	CURR	SPEC	GROUP	STAGE	CATCH
5	880413	955	310	1	3	30	7.0	0.04	S494	.	.	6
5	880413	955	310	1	3	30	7.0	0.04	S523	.	.	1
5	880413	955	310	1	3	30	7.0	0.04	S999	.	.	30
5	880413	955	310	1	3	30	7.0	0.04	H108	4	3	2
5	880413	1000	310	2	3	30	7.0	0.04	H124	4	4	3
5	880413	1000	310	2	3	30	7.0	0.04	S503	.	.	15
5	880413	1000	310	2	3	30	7.0	0.04	H108	4	3	1
5	880413	1000	310	2	3	30	7.0	0.04	S999	.	.	15
5	880413	1000	310	2	3	30	7.0	0.04	H124	4	3	1
5	880413	1000	310	2	3	30	7.0	0.04	S494	.	.	1
5	880413	1005	310	3	3	30	7.0	0.04	S291	.	.	1
5	880413	1005	310	3	3	30	7.0	0.04	S503	.	.	1
5	880413	1005	310	3	3	30	7.0	0.04	S494	.	.	2
5	880413	1005	310	3	3	30	7.0	0.04	S999	.	.	55
5	880413	1005	310	3	3	30	7.0	0.04	H108	4	3	1
5	880413	1005	310	3	3	30	7.0	0.04	H124	4	4	2
5	880413	1020	305	1	3	46	8.0	0.32	S544	.	.	4
5	880413	1020	305	1	3	46	8.0	0.32	S665	.	.	1
5	880413	1020	305	1	3	46	8.0	0.32	S494	.	.	3
5	880413	1020	305	1	3	46	8.0	0.32	S523	.	.	1
5	880413	1020	305	1	3	46	8.0	0.32	S291	.	.	1
5	880413	1020	305	1	3	46	8.0	0.32	H124	4	4	1
5	880413	1020	305	2	3	46	8.0	0.32	H127	4	6	2
5	880413	1020	305	2	3	46	8.0	0.32	S544	.	.	3
5	880413	1020	305	2	3	46	8.0	0.32	S291	.	.	4
5	880413	1020	305	2	3	46	8.0	0.32	S523	.	.	1
5	880413	1020	305	2	3	46	8.0	0.32	S823	.	.	2
5	880413	1035	305	3	3	46	8.0	0.32	H124	4	3	1
5	880413	1035	305	3	3	46	8.0	0.32	S291	.	.	2
5	880413	1035	305	3	3	46	8.0	0.32	H112	4	3	1
5	880413	1035	305	3	3	46	8.0	0.32	S494	.	.	1
5	880413	1035	305	3	3	46	8.0	0.32	S523	.	.	1
5	880413	1135	306	1	3	.	14.0	0.00	H112	4	3	125
5	880413	1135	306	1	3	.	14.0	0.00	S523	.	.	1
5	880413	1135	306	1	3	.	14.0	0.00	S665	.	.	1
5	880413	1140	306	2	3	.	14.0	0.00	H112	4	3	3
5	880413	1140	306	2	3	.	14.0	0.00	S494	.	.	3
5	880413	1140	306	2	3	.	14.0	0.00	S503	.	.	1
5	880413	1145	306	3	3	.	14.0	0.00	H118	4	4	5
5	880413	1145	306	3	3	.	14.0	0.00	S494	.	.	5
5	880413	1145	306	3	3	.	14.0	0.00	H112	4	3	15

Table 5. Summary of chinook catch data for the Fraser River at the North Arm, Main Arm and Agassiz during 1987-88.

		NORTH ARM				MAIN ARM			
Trip	Date	Total ck	Marked ck	Sets	CPUE	Total ck	Marked ck	Sets	CPUE
1	870211	-	-	23	0	-	-	-	-
2	870316	7	-	6	1.16	28	-	2	14.00
3	870401	196	-	26	7.54	-	-	-	-
4	870413	401	1	36	11.14	-	-	-	-
5	870421	-	-	-	-	159	1	24	6.63
6	870429-30	289	-	23	12.56	234	5	12	19.50
7	870511-14	200	13	24	8.33	339	22	22	15.41
8	870525-28	382	2	21	18.19	97	5	22	4.41
9	870608-10	60	-	21	2.86	152	-	22	6.91
10	870622-24	30	-	24	1.25	68	-	24	2.83
11	870707-08	17	-	20	0.85	26	-	24	1.08
12	870722-23	5	-	21	0.24	12	-	24	0.50
13	870818-19	1	-	24	0.04	1	-	24	0.04
14	870916-17	1	-	24	0.04	-	-	24	0
15	871014-15	-	-	24	0	-	-	12	0
16	871119-20	-	-	24	0	-	-	24	0
17	871215	-	-	24	0	-	-	-	-
1	880119	-	-	12	0	-	-	12	0
2	880218	-	-	12	0	-	-	12	0
	TOTAL	1589	16	366	4.34	1116	33	307	3.64

		AGASSIZ			
Trip	Date	Total ck	Marked ck	Sets	CPUE
1	870415	65	1	14	4.64
2	870501	169	-	18	9.39
3	870514	36	-	15	2.40
4	870528	81	-	18	4.50
5	870610	60	1	18	3.33
6	870625	133	-	21	6.33
7	870709	42	-	18	2.33
8	870724	117	-	18	6.50
9	870805	79	-	21	3.76
10	870820	129	-	18	7.17
11	870903	67	-	27	2.48
12	870917	147	-	24	6.13
13	871015	47	-	24	1.96
14	871029	37	-	24	1.54
15	871112	37	-	21	1.76
16	871209	5	-	21	0.24
1	880127	-	-	18	0
2	880210	-	-	18	0
3	880308	8	-	21	0.38
4	880323	6	-	21	0.29
5	880413	19	-	21	0.90
	TOTAL	1284	2	419	3.06

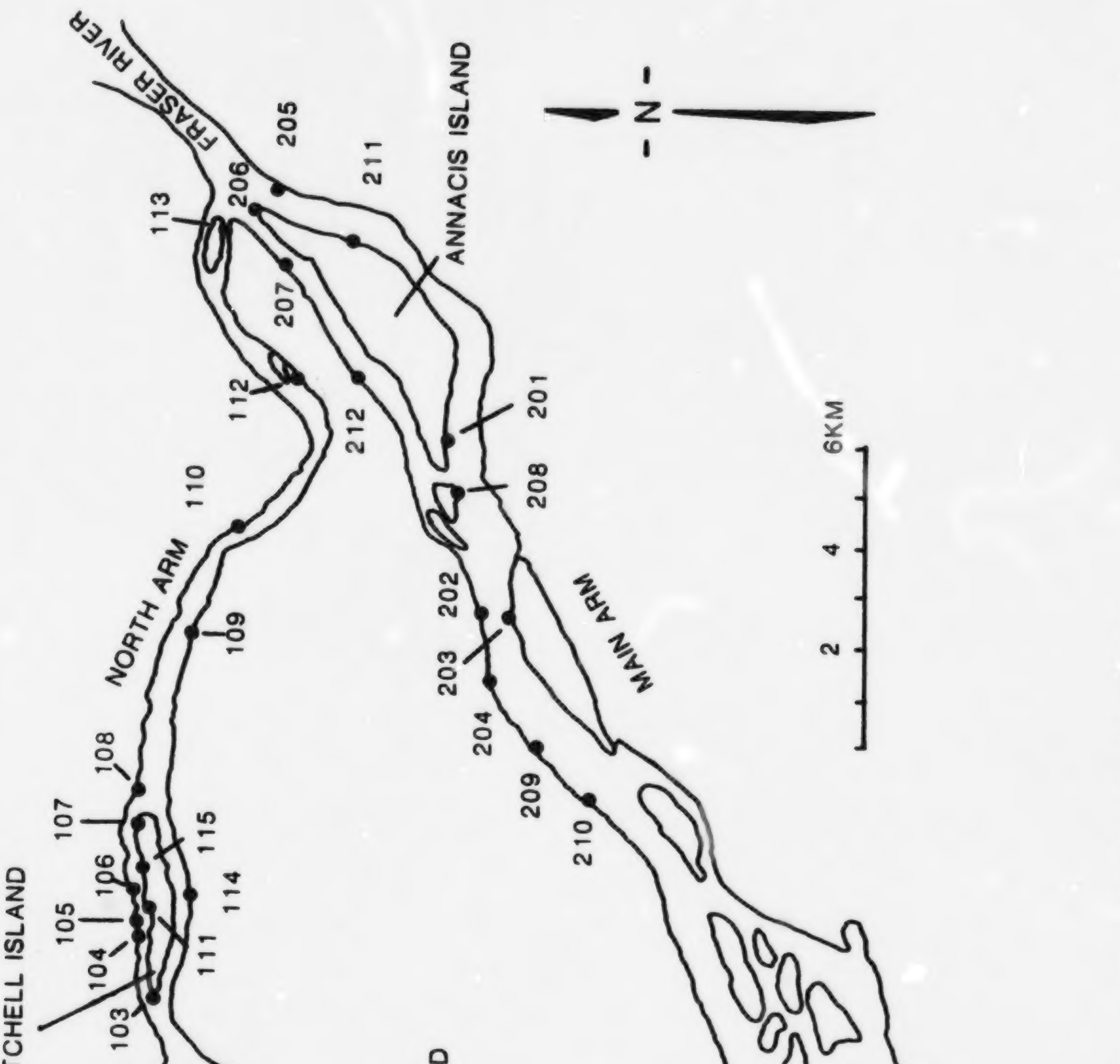
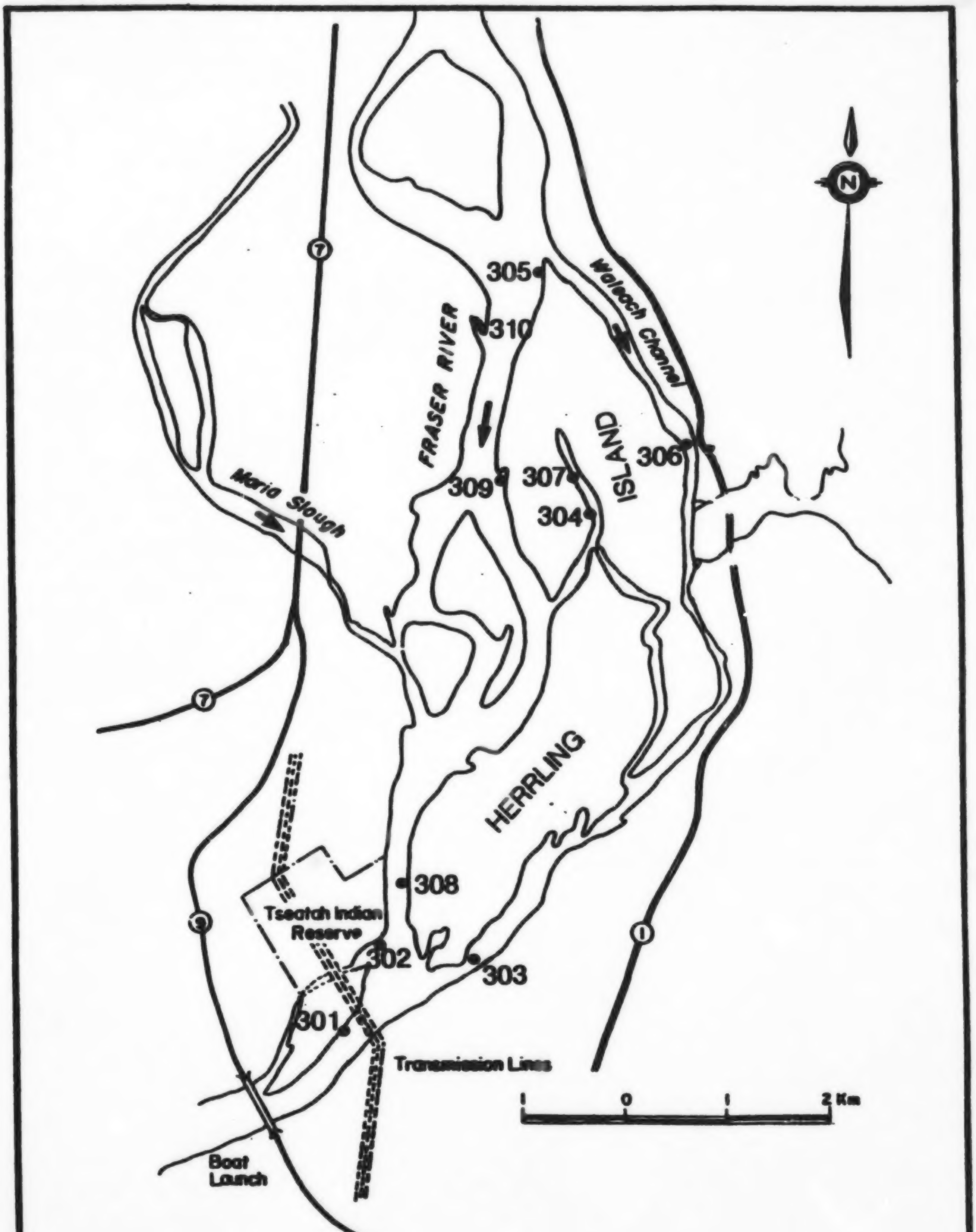


Fig. 1. North Arm and Main Arm beach seine stations.

Fig. 2. Agassiz beach seine stations.


N
7
305
310
FRASER RIVER
Waleach Channel
ISLAND
306
307
309
304
Maria Slough
7
HERRLING
308
Tseatah Indian Reserve
302
303
1
301
Transmission Lines
1 0 1 2 Km
Boat Launch

Appendix I - Histograms of chinook lengths (mm) from Agassiz for 1987

Appendix I. - Mean length of chinook salmon from the Agassiz sampling area for 1987.

Trip	Date	N	Len	SD
1	870415	40	68.1	30.05
2	870501			
3	870514			
4	870528	80	43.9	12.94
5	870610	51	44.0	10.59
6	870625	136	49.3	10.58
7	870709	40	49.6	8.73
8	870724	115	58.3	7.50
9	870805	59	61.9	6.99
10	870820	128	64.9	7.97
11	870903	66	70.8	8.24
12	870917	147	71.7	7.36
13	871015	56	84.4	6.95
14	871029	37	92.4	6.70
15	871112	35	93.7	8.77
16	871209	5	93.4	3.91

```
                              TRIP=1

                        FREQUENCY BAR CHART
MIDPOINT
  LEN                                                          FREQ  CUM.  PERCENT    CUM.
                                                                     FREQ           PERCENT
        |
   30   |                                                        0     0     0.00      0.00
   35   |****************************************                8     8    20.00     20.00
   40   |**************************************************     10    18    25.00     45.00
   45   |*****                                                   1    19     2.50     47.50
   50   |                                                        0    19     0.00     47.50
   55   |                                                        0    19     0.00     47.50
   60   |*****                                                   1    20     2.50     50.00
   65   |                                                        0    20     0.00     50.00
   70   |                                                        0    20     0.00     50.00
   75   |                                                        0    20     0.00     50.00
   80   |*****                                                   1    21     2.50     52.50
   85   |**********                                              2    23     5.00     57.50
   90   |***************                                         3    26     7.50     65.00
   95   |******************************                          6    32    15.00     80.00
  100   |*****                                                   1    33     2.50     82.50
  105   |******************************                          6    39    15.00     97.50
  110   |*****                                                   1    40     2.50    100.00
        |
        -----+----+----+----+----+----+----+----+----+----+
             1    2    3    4    5    6    7    8    9   10

                           FREQUENCY
```

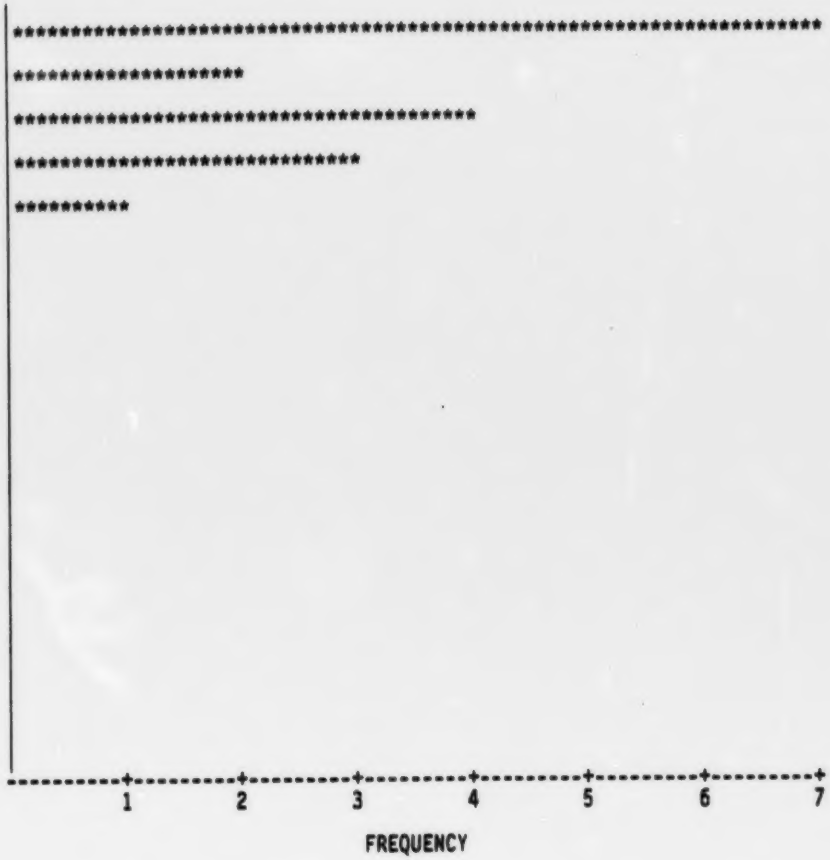
```
                                   TRIP=2

                             FREQUENCY BAR CHART
MIDPOINT
  LEN                                                                  FREQ  CUM.  PERCENT    CUM.
                                                                             FREQ           PERCENT
      |
   30 |**********                                                         5     5    11.63    11.63
   35 |********************************************************          28    33    65.12    76.74
   40 |****************                                                   8    41    18.60    95.35
   45 |                                                                   0    41     0.00    95.35
   50 |                                                                   0    41     0.00    95.35
   55 |                                                                   0    41     0.00    95.35
   60 |                                                                   0    41     0.00    95.35
   65 |                                                                   0    41     0.00    95.35
   70 |                                                                   0    41     0.00    95.35
   75 |**                                                                 1    42     2.33    97.67
   80 |                                                                   0    42     0.00    97.67
   85 |                                                                   0    42     0.00    97.67
   90 |                                                                   0    42     0.00    97.67
   95 |                                                                   0    42     0.00    97.67
  100 |                                                                   0    42     0.00    97.67
  105 |                                                                   0    42     0.00    97.67
  110 |**                                                                 1    43     2.33   100.00
      |
      ----+---+---+---+---+---+---+---+---+---+---+---+---+---+
          2   4   6   8  10  12  14  16  18  20  22  24  26  28

                              FREQUENCY
```

TRIP=3

FREQUENCY BAR CHART



MIDPOINT LEN	FREQ	CUM. FREQ	PERCENT	CUM. PERCENT
30	7	7	41.18	41.18
35	2	9	11.76	52.94
40	4	13	23.53	76.47
45	3	16	17.65	94.12
50	1	17	5.88	100.00
55	0	17	0.00	100.00
60	0	17	0.00	100.00
65	0	17	0.00	100.00
70	0	17	0.00	100.00
75	0	17	0.00	100.00
80	0	17	0.00	100.00
85	0	17	0.00	100.00
90	0	17	0.00	100.00
95	0	17	0.00	100.00
100	0	17	0.00	100.00
105	0	17	0.00	100.00
110	0	17	0.00	100.00

TRIP=4

FREQUENCY BAR CHART

MIDPOINT LEN		FREQ	CUM. FREQ	PERCENT	CUM. PERCENT
30		0	0	0.00	0.00
35	**********************************	17	17	21.25	21.25
40	**	40	57	50.00	71.25
45	********************	10	67	12.50	83.75
50	**************	7	74	8.75	92.50
55		0	74	0.00	92.50
60		0	74	0.00	92.50
65		0	74	0.00	92.50
70		0	74	0.00	92.50
75		0	74	0.00	92.50
80	**	1	75	1.25	93.75
85	******	3	78	3.75	97.50
90	****	2	80	2.50	100.00
95		0	80	0.00	100.00
100		0	80	0.00	100.00
105		0	80	0.00	100.00
110		0	80	0.00	100.00

2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40

FREQUENCY

TRIP=5

FREQUENCY BAR CHART

MIDPOINT LEN		FREQ	CUM. FREQ	PERCENT	CUM. PERCENT
30	************	3	3	5.88	5.88
35	************************	6	9	11.76	17.65
40	** ********	22	31	43.14	60.78
45	************************************	9	40	17.65	78.43
50	****************	4	44	7.84	86.27
55	****************	4	48	7.84	94.12
60		0	48	0.00	94.12
65		0	48	0.00	94.12
70	****	1	49	1.96	96.08
75		0	49	0.00	96.08
80	****	1	50	1.96	98.04
85	****	1	51	1.96	100.00
90		0	51	0.00	100.00
95		0	51	0.00	100.00
100		0	51	0.00	100.00
105		0	51	0.00	100.00
110		0	51	0.00	100.00

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22

FREQUENCY

```
                                   TRIP=6

                             FREQUENCY BAR CHART
MIDPOINT
  LEN                                                                          FREQ  CUM.   PERCENT    CUM.
                                                                                     FREQ            PERCENT
       |
   30  |                                                                          0     0     0.00     0.00
       |
   35  |****************                                                          8     8     5.88     5.88
       |
   40  |****************************************************                     26    34    19.12    25.00
       |
   45  |************************************************************************ 36    70    26.47    51.47
       |
   50  |****************************************************                     26    96    19.12    70.59
       |
   55  |****************************************                                 20   116    14.71    85.29
       |
   60  |******************                                                        9   125     6.62    91.91
       |
   65  |****                                                                      2   127     1.47    93.38
       |
   70  |****                                                                      2   129     1.47    94.85
       |
   75  |****                                                                      2   131     1.47    96.32
       |
   80  |******                                                                    3   134     2.21    98.53
       |
   85  |**                                                                        1   135     0.74    99.26
       |
   90  |**                                                                        1   136     0.74   100.00
       |
   95  |                                                                          0   136     0.00   100.00
       |
  100  |                                                                          0   136     0.00   100.00
       |
  105  |                                                                          0   136     0.00   100.00
       |
  110  |                                                                          0   136     0.00   100.00
       |
       ----+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+
           2   4   6   8  10  12  14  16  18  20  22  24  26  28  30  32  34  36

                                 FREQUENCY
```

TRIP=7

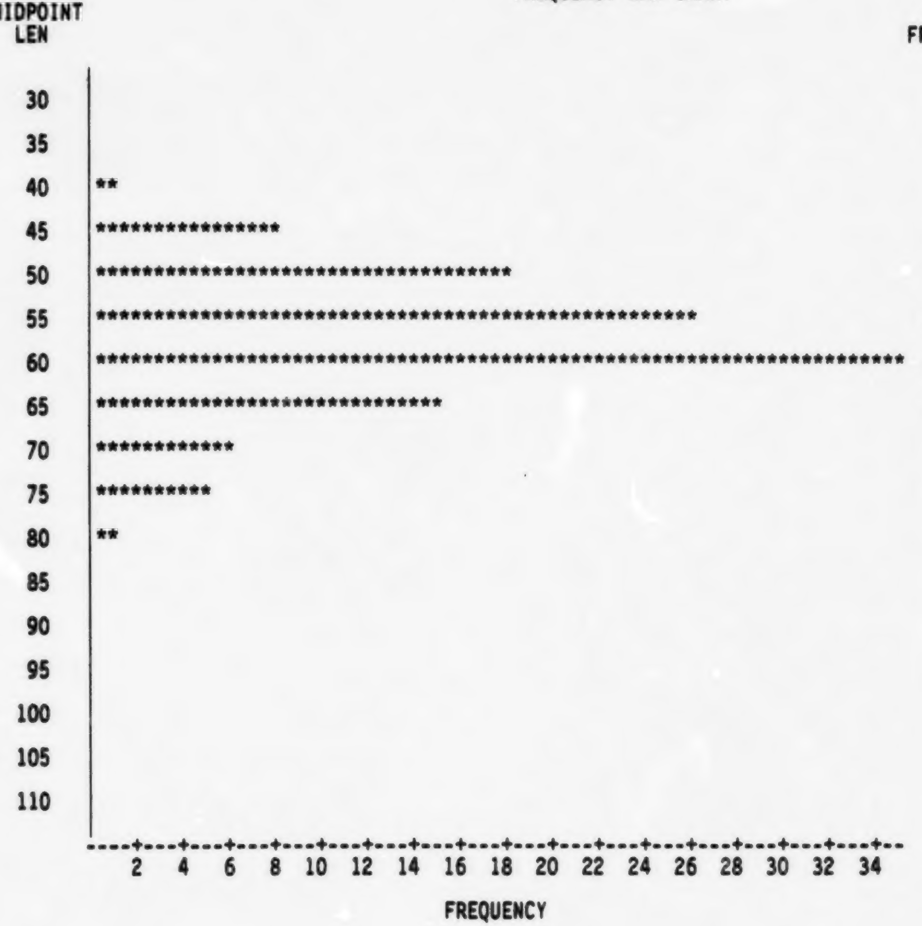
FREQUENCY BAR CHART

```
MIDPOINT
LEN                                                                                   FREQ  CUM.   PERCENT   CUM.
                                                                                            FREQ             PERCENT
      |
 30   |                                                                                 0     0      0.00      0.00
 35   |***************                                                                  3     3      7.50      7.50
 40   |********************                                                             4     7     10.00     17.50
 45   |*********************************************                                    9    16     22.50     40.00
 50   |*****************************************************************               13    29     32.50     72.50
 55   |*************************                                                        5    34     12.50     85.00
 60   |**********                                                                       2    36      5.00     90.00
 65   |*****                                                                            1    37      2.50     92.50
 70   |***************                                                                  3    40      7.50    100.00
 75   |                                                                                 0    40      0.00    100.00
 80   |                                                                                 0    40      0.00    100.00
 85   |                                                                                 0    40      0.00    100.00
 90   |                                                                                 0    40      0.00    100.00
 95   |                                                                                 0    40      0.00    100.00
100   |                                                                                 0    40      0.00    100.00
105   |                                                                                 0    40      0.00    100.00
110   |                                                                                 0    40      0.00    100.00
      |
      -----+----+----+----+----+----+----+----+----+----+----+----+----+
           1    2    3    4    5    6    7    8    9   10   11   12   13

                                 FREQUENCY
```

TRIP=8

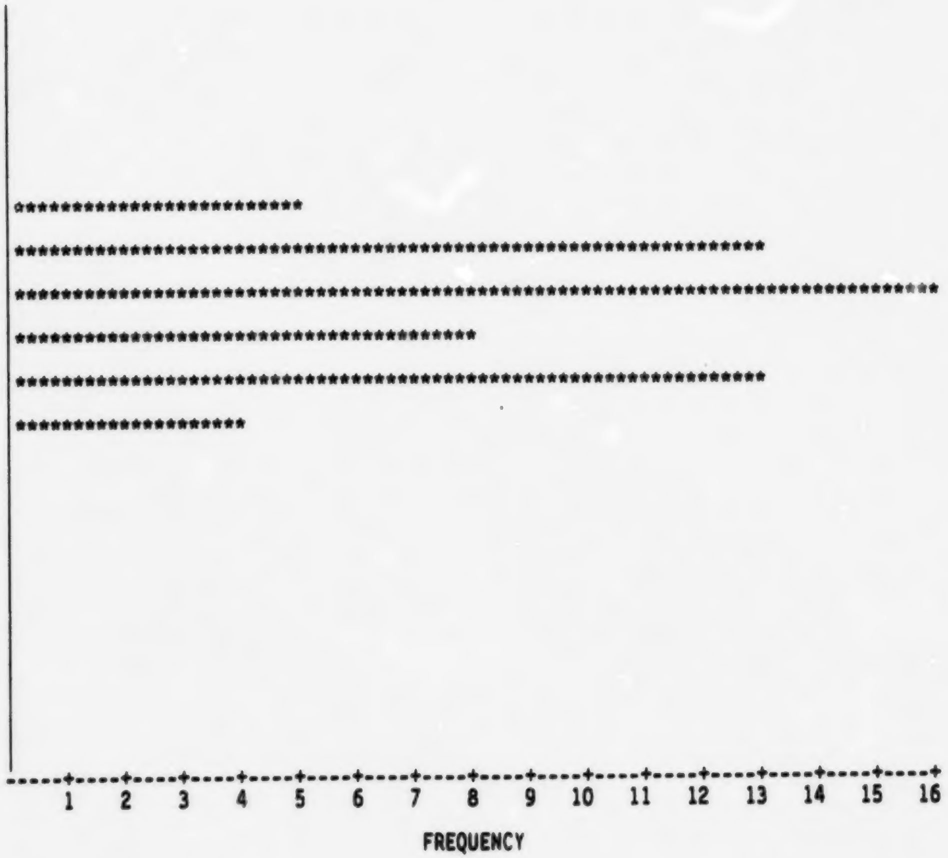
FREQUENCY BAR CHART



MIDPOINT LEN	FREQ	CUM. FREQ	PERCENT	CUM. PERCENT
30	0	0	0.00	0.00
35	0	0	0.00	0.00
40	1	1	0.87	0.87
45	8	9	6.96	7.83
50	18	27	15.65	23.48
55	26	53	22.61	46.09
60	35	88	30.43	76.52
65	15	103	13.04	89.57
70	6	109	5.22	94.78
75	5	114	4.35	99.13
80	1	115	0.87	100.00
85	0	115	0.00	100.00
90	0	115	0.00	100.00
95	0	115	0.00	100.00
100	0	115	0.00	100.00
105	0	115	0.00	100.00
110	0	115	0.00	100.00

TRIP=9

FREQUENCY BAR CHART



MIDPOINT LEN	FREQ	CUM. FREQ	PERCENT	CUM. PERCENT
30	0	0	0.00	0.00
35	0	0	0.00	0.00
40	0	0	0.00	0.00
45	0	0	0.00	0.00
50	5	5	8.47	8.47
55	13	18	22.03	30.51
60	16	34	27.12	57.63
65	8	42	13.56	71.19
70	13	55	22.03	93.22
75	4	59	6.78	100.00
80	0	59	0.00	100.00
85	0	59	0.00	100.00
90	0	59	0.00	100.00
95	0	59	0.00	100.00
100	0	59	0.00	100.00
105	0	59	0.00	100.00
110	0	59	0.00	100.00

```
                              TRIP=10

                        FREQUENCY BAR CHART
MIDPOINT
  LEN                                                                        FREQ  CUM.  PERCENT   CUM.
                                                                                   FREQ          PERCENT
     |
  30 |                                                                          0     0    0.00     0.00
  35 |                                                                          0     0    0.00     0.00
  40 |                                                                          0     0    0.00     0.00
  45 |                                                                          0     0    0.00     0.00
  50 |********************                                                     10    10    7.81     7.81
  55 |********************                                                     10    20    7.81    15.63
  60 |**********************************************************************   35    55   27.34    42.97
  65 |**********************************************                           23    78   17.97    60.94
  70 |******************************************************                   27   105   21.09    82.03
  75 |******************************                                           15   120   11.72    93.75
  80 |**********                                                                5   125    3.91    97.66
  85 |****                                                                      2   127    1.56    99.22
  90 |**                                                                        1   128    0.78   100.00
  95 |                                                                          0   128    0.00   100.00
 100 |                                                                          0   128    0.00   100.00
 105 |                                                                          0   128    0.00   100.00
 110 |                                                                          0   128    0.00   100.00
     |
     ----+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+--
         2   4   6   8  10  12  14  16  18  20  22  24  26  28  30  32  34

                              FREQUENCY
```

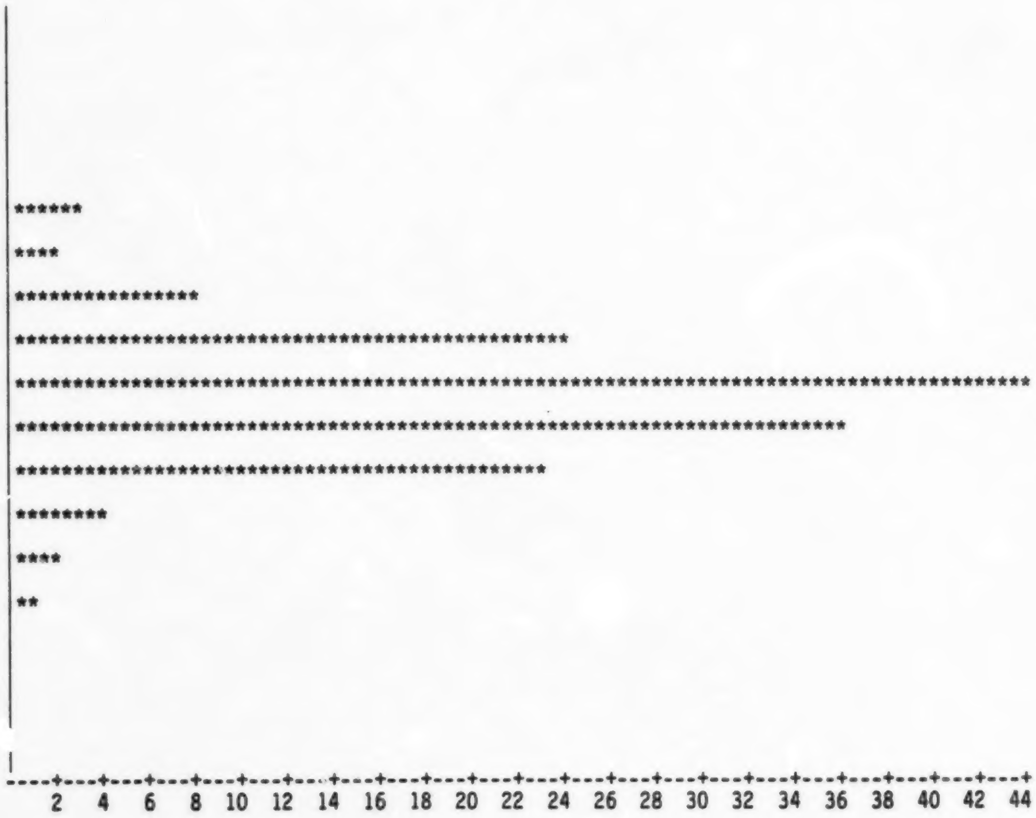
```
                                      TRIP=11

                                FREQUENCY BAR CHART
MIDPOINT
  LEN                                                                                         FREQ  CUM.  PERCENT   CUM.
                                                                                                    FREQ          PERCENT
       |
  30   |                                                                                        0     0     0.00     0.00
  35   |                                                                                        0     0     0.00     0.00
  40   |                                                                                        0     0     0.00     0.00
  45   |                                                                                        0     0     0.00     0.00
  50   |****                                                                                    1     1     1.52     1.52
  55   |****                                                                                    1     2     1.52     3.03
  60   |************************                                                                6     8     9.09    12.12
  65   |********************************************************                               14    22    21.21    33.33
  70   |********************************************************************************       20    42    30.30    63.64
  75   |********************************************                                           11    53    16.67    80.30
  80   |************************************                                                    9    62    13.64    93.94
  85   |********                                                                                2    64     3.03    96.97
  90   |                                                                                        0    64     0.00    96.97
  95   |****                                                                                    1    65     1.52    98.48
 100   |****                                                                                    1    66     1.52   100.00
 105   |                                                                                        0    66     0.00   100.00
 110   |                                                                                        0    66     0.00   100.00
       |
       ----+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+
           1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20

                                     FREQUENCY
```

TRIP=12

FREQUENCY BAR CHART

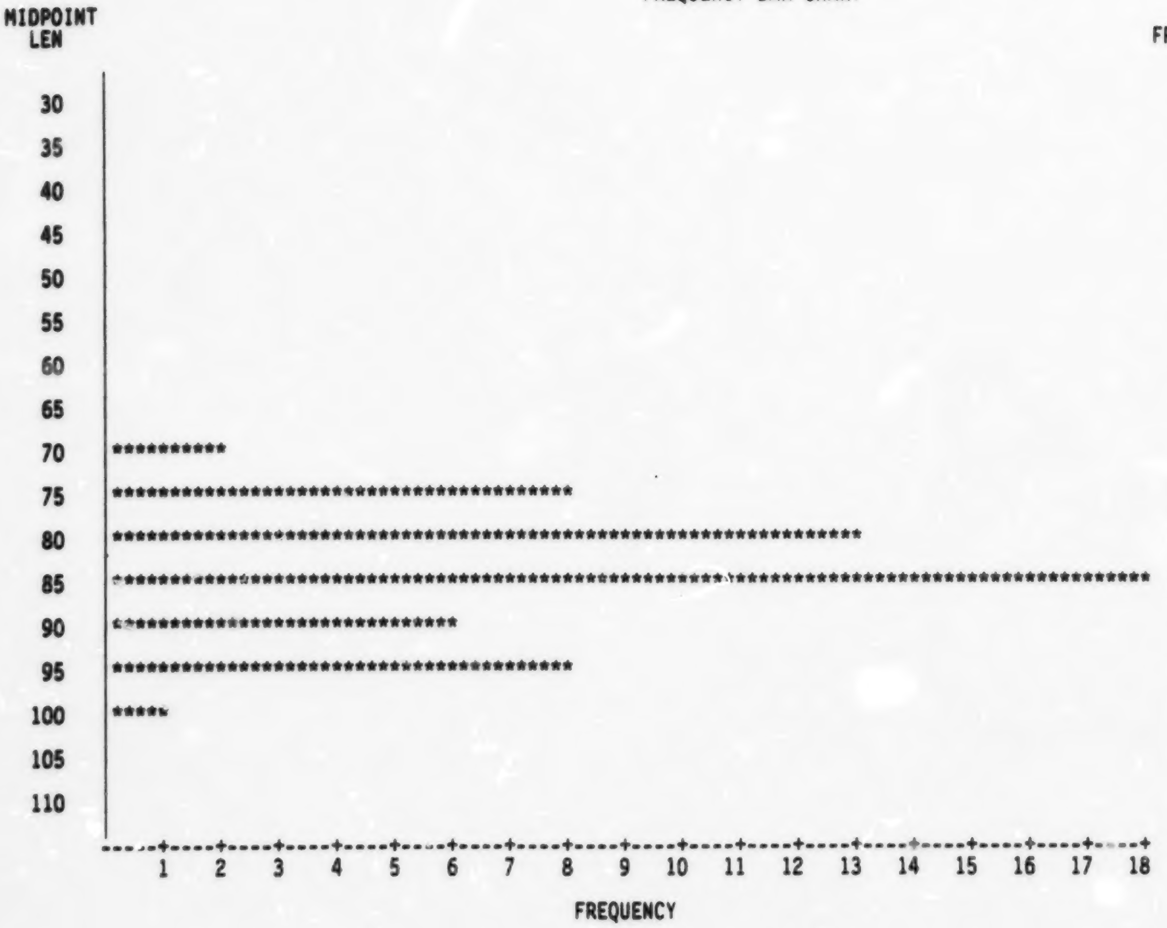


MIDPOINT LEN	FREQ	CUM. FREQ	PERCENT	CUM. PERCENT
30	0	0	0.00	0.00
35	0	0	0.00	0.00
40	0	0	0.00	0.00
45	0	0	0.00	0.00
50	3	3	2.04	2.04
55	2	5	1.36	3.40
60	8	13	5.44	8.84
65	24	37	16.33	25.17
70	44	81	29.93	55.10
75	36	117	24.49	79.59
80	23	140	15.65	95.24
85	4	144	2.72	97.96
90	2	146	1.36	99.32
95	1	147	0.68	100.00
100	0	147	0.00	100.00
105	0	147	0.00	100.00
110	0	147	0.00	100.00

FREQUENCY

TRIP=13

FREQUENCY BAR CHART



MIDPOINT LEN	FREQ	CUM. FREQ	PERCENT	CUM. PERCENT
30	0	0	0.00	0.00
35	0	0	0.00	0.00
40	0	0	0.00	0.00
45	0	0	0.00	0.00
50	0	0	0.00	0.00
55	0	0	0.00	0.00
60	0	0	0.00	0.00
65	0	0	0.00	0.00
70	2	2	3.57	3.57
75	8	10	14.29	17.86
80	13	23	23.21	41.07
85	18	41	32.14	73.21
90	6	47	10.71	83.93
95	8	55	14.29	98.21
100	1	56	1.79	100.00
105	0	56	0.00	100.00
110	0	56	0.00	100.00

TRIP=14

FREQUENCY BAR CHART

```
MIDPOINT
  LEN                                                                              FREQ  CUM.  PERCENT   CUM.
                                                                                          FREQ          PERCENT
   30  |                                                                             0     0     0.00     0.00
   35  |                                                                             0     0     0.00     0.00
   40  |                                                                             0     0     0.00     0.00
   45  |                                                                             0     0     0.00     0.00
   50  |                                                                             0     0     0.00     0.00
   55  |                                                                             0     0     0.00     0.00
   60  |                                                                             0     0     0.00     0.00
   65  |                                                                             0     0     0.00     0.00
   70  |                                                                             0     0     0.00     0.00
   75  |*****                                                                        1     1     2.70     2.70
   80  |**********                                                                   2     3     5.41     8.11
   85  |********************                                                         4     7    10.81    18.92
   90  |**************************************************                          10    17    27.03    45.95
   95  |**********************************************************************      14    31    37.84    83.78
  100  |********************                                                         4    35    10.81    94.59
  105  |*****                                                                        1    36     2.70    97.30
  110  |*****                                                                        1    37     2.70   100.00
       |
       -----+----+----+----+----+----+----+----+----+----+----+----+----+----+
            1    2    3    4    5    6    7    8    9   10   11   12   13   14

                                 FREQUENCY
```

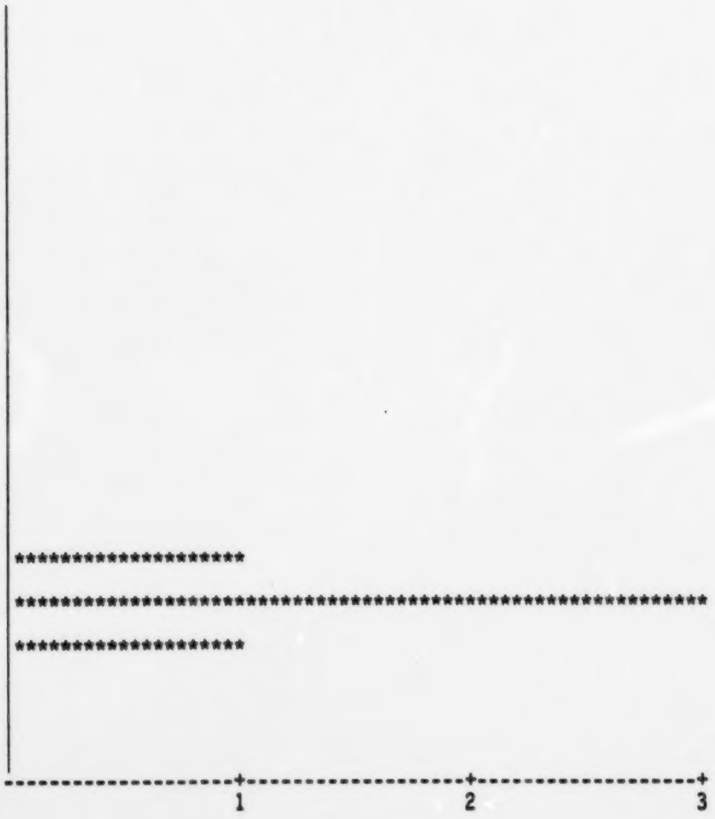
```
                                   TRIP=15

                              FREQUENCY BAR CHART
MIDPOINT
  LEN                                                                              FREQ  CUM.   PERCENT   CUM.
                                                                                         FREQ            PERCENT
    30 |                                                                             0     0     0.00      0.00
    35 |                                                                             0     0     0.00      0.00
    40 |                                                                             0     0     0.00      0.00
    45 |                                                                             0     0     0.00      0.00
    50 |                                                                             0     0     0.00      0.00
    55 |                                                                             0     0     0.00      0.00
    60 |                                                                             0     0     0.00      0.00
    65 |                                                                             0     0     0.00      0.00
    70 |                                                                             0     0     0.00      0.00
    75 |**********                                                                   1     1     2.86      2.86
    80 |****************************************                                     4     5    11.43     14.29
    85 |******************************                                               3     8     8.57     22.86
    90 |********************************************************************************  8    16    22.86     45.71
    95 |**************************************************                           5    21    14.29     60.00
   100 |**********************************************************************       7    28    20.00     80.00
   105 |**********************************************************************       7    35    20.00    100.00
   110 |                                                                             0    35     0.00    100.00
       ---------+---------+---------+---------+---------+---------+---------+---------+
                1         2         3         4         5         6         7         8

                                     FREQUENCY
```

TRIP=16

FREQUENCY BAR CHART



MIDPOINT LEN	FREQ	CUM. FREQ	PERCENT	CUM. PERCENT
30	0	0	0.00	0.00
35	0	0	0.00	0.00
40	0	0	0.00	0.00
45	0	0	0.00	0.00
50	0	0	0.00	0.00
55	0	0	0.00	0.00
60	0	0	0.00	0.00
65	0	0	0.00	0.00
70	0	0	0.00	0.00
75	0	0	0.00	0.00
80	0	0	0.00	0.00
85	0	0	0.00	0.00
90	1	1	20.00	20.00
95	3	4	60.00	80.00
100	1	5	20.00	100.00
105	0	5	0.00	100.00
110	0	5	0.00	100.00